**III. Uniform Laws**

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8T46T[C. Uniform Engine Fuels and Automotive Lubricants Inspection Law 41](iiic-engfuellaw-16-h130-final.docx)

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**A. Uniform Weights and Measures Law**

as adopted by

The National Conference on Weights and Measures\*

**1. Background**

Recognition of the need for uniformity in weights and measures laws and regulations among the states was first noted at the second Annual Meeting of the National Conference on Weights and Measures (NCWM) in April 1906. In the following year, basic outlines of a “Model State Weights and Measures Law” were developed. The first “Model Law,” as such, was formally adopted by the Conference in 1911.

Through the years, almost without exception, each state has relied upon the NCWM Weights and Measures Law when the state first enacted comprehensive weights and measures legislation. This has led to a greater degree of uniformity in the basic weights and measures requirements throughout the country.

The original Law was regularly amended to provide for new developments in commercial practices and technology. This resulted in a lengthy and cumbersome document and the need for a simplification of the basic weights and measures provisions. The 1971 NCWM adopted a thoroughly revised, simplified, modernized version of the “Model State Weights and Measures Law.” This Law now can serve as a framework for all the many concerns in weights and measures administration and enforcement.

The title of the Law was changed by the 1983 NCWM. Amendments or revisions to the Law since 1971 are noted at the end of each section.

Sections 4 through 10 of the Uniform Weights and Measures Law adopt NIST Handbook 44 and the Uniform Regulations in NIST Handbook 130 by citation. In addition, these sections adopt supplements to and revisions of Handbook 44 and the Uniform Regulations “except insofar as modified or rejected by regulation.” Some state laws may not permit enacting a statute that provides for automatic adoption of future supplements to or revisions of a Uniform Regulation covered by that statute. If this should be the case in a given state, two alternatives are available:

1. Sections 4 through 10 may be enacted without the phrase “. . . and supplements thereto or revisions thereof . . .”; or
2. Sections 4 through 10 may be enacted by replacing “. . . except insofar as modified or rejected by regulation . . .” with the phrase “. . . as adopted, or amended and adopted, by rule of the director.”

Either alternative requires action on the part of the Director to adopt a current version of Handbook 44 and each Uniform Regulation each time a supplement or revision is made by the NCWM.

**2. Status of Promulgation**

See the table beginning on page 10, Section II. Uniformity of Laws and Regulations of Handbook 130 for the status of adoption of the Uniform Weights and Measures Law.

*\*The National Conference on Weights and Measures (NCWM) is supported by National Institute of Standards and Technology (NIST) in partial implementation of its statutory responsibility for “cooperation with the states in securing uniformity in weights and measures laws and methods of inspection.”*

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**Uniform Weights and Measures Law**

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8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T8T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T46T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**Uniform Weights and Measures Law**

**Section 1. Definitions**

When used in this Act:

* 1. **Weight(s) and (or) Measure(s).** – The term “weight(s) and (or) measure(s)” means all weights and measures of every kind, instruments and devices for weighing and measuring, and any appliance and accessories associated with any or all such instruments and devices.

**1.2. Weight.** – The term “weight” as used in connection with any commodity or service means net weight. When a commodity is sold by drained weight, the term means net drained weight.

(Amended 1974 and 1990)

**1.3. Correct.** – The term “correct” as used in connection with weights and measures means conformance to all applicable requirements of this Act.

**1.4. Director.** – The term “director” means the \_\_\_\_\_\_\_\_\_\_ of the Department of \_\_\_\_\_\_\_\_\_\_.

**1.5. Person.** – The term “person” means both plural and the singular, as the case demands, and includes individuals, partnerships, corporations, companies, societies, and associations.

**1.6. Sale from Bulk.** – The term “sale from bulk” means the sale of commodities when the quantity is determined at the time of sale.

**1.7. Package.** – Except as modified by Section 1. Application of the Uniform Packaging and Labeling Regulation, the term “package,” whether standard package or random package, means any commodity:

1. enclosed in a container or wrapped in any manner in advance of wholesale or retail sale; or
2. whose weight or measure has been determined in advance of wholesale or retail sale.

An individual item or lot of any commodity on which there is marked a selling price based on an established price per unit of weight or of measure shall be considered a package (or packages).

(Amended 1991)

**1.8. Net “Mass” or Net “Weight.”** – The term “net mass” or “net weight” means the weight [***NOTE 1***, page 17] of a commodity excluding any materials, substances, or items not considered to be part of the commodity. Materials, substances, or items not considered to be part of the commodity include, but are not limited to, containers, conveyances, bags, wrappers, packaging materials, labels, individual piece coverings, decorative accompaniments, and coupons, except that, depending on the type of service rendered, packaging materials may be considered to be part of the service. For example, the service of shipping includes the weight of packing materials.

(Added 1988) (Amended 1989, 1991, and 1993)

**1.9. Random Weight Package.** – A package that is one of a lot, shipment, or delivery of packages of the same commodity with no fixed pattern of weights.

(Added 1990)

***NOTE 1:*** *When used in this Law, the term “weight” means “mass.” (See paragraphs L. “Mass” and “Weight” and V. Use of the Terms “Mass” and “Weight” in Section I. Introduction of NIST Handbook 130 for an explanation of these terms.)*

(Note added 1993)

* 1. **Standard Package.** – A package that is one of a lot, shipment, or delivery of packages of the same commodity with identical net contents declarations.

**Examples**:

l L bottles or 12 fl oz cans of carbonated soda

500 g or 5 lb bags of sugar

100 m or 300 ft packages of rope

(Added 1991) (Amended 1993)

* 1. **Commercial Weighing and Measuring Equipment.** – The term “commercial weighing and measuring equipment” means weights and measures and weighing and measuring devices commercially used or employed in establishing the size, quantity, extent, area, or measurement of quantities, things, produce, or articles for distribution or consumption, purchased, offered, or submitted for sale, hire, or award, or in computing any basic charge or payment for services rendered on the basis of weight or measure.

(Added 1995)

* 1. **Standard, Field.** – A physical standard that meets specifications and tolerances in NIST Handbook 105‑series standards (or other suitable and designated standards) and is traceable to the reference or working standards through comparisons, using acceptable laboratory procedures, and used in conjunction with commercial weighing and measuring equipment (1.13. Accreditation).

(Added 2005)

* 1. **Accreditation.** – A formal recognition by a recognized Accreditation Body that a laboratory is competent to carry out specific tests or calibrations or types of tests or calibrations. **NOTE:** Accreditation does not ensure compliance of standards to appropriate specifications.

(Added 2005)

* 1. **Calibration.** – An operation that, under specified conditions, in a first step, establishes a relation between the quantity values with measurement uncertainties provided by measurement standards and corresponding indications with associated measurement uncertainties and, in a second step, uses this information to establish a relation for obtaining a measurement result from an indication.

(Added 2005) (Amended 2013)

* 1. **Metrological Traceability.** – The property of a measurement result whereby the result can be related to a reference through a documented unbroken chain of calibrations, each contributing to the measurement uncertainty.

(Added 2005) (Amended 2013)

**1.16. Measurement Uncertainty.** – A non-negative parameter characterizing the dispersion of the quantity values being attributed to a measurand, based on the information used.

(Added 2005) (Amended 2013)

**1.17. Verification.** – The formal evaluation of a standard or device against the specifications and tolerances for determining conformance.

(Added 2005)

**1.18. Recognition.** – A formal recognition by NIST Office of Weights and Measures that a laboratory has demonstrated the ability to provide traceable measurement results and is competent to carry out specific tests or calibrations or types of tests or calibrations.

(Added 2005)

**1.19. Standard, Reference Measurement.** – A measurement standard designated for the calibration of other measurement standards for quantities of a given kind in a given organization or at a given location. The term “reference measurement standards” usually means the physical standards of the state that serve as the legal reference from which all other standards for weights and measures within that state are derived.

(Added 2005) (Amended 2013)

**1.20. Standard, Working Measurement.** – A measurement standard that is used routinely to calibrate or verify measuring instruments or measuring systems. The term “working measurement standards” means the physical standards that are traceable to the reference standards through calibrations or verifications, using acceptable laboratory procedures, and used in the enforcement of weights and measures laws and regulations.

(Added 2005) (Amended 2013)

**1.21. Metrological Traceability Chain.** – Sequence of measurement standards and calibrations that is used to relate a measurement result to a reference.

(Added 2013)

**1.22. Metrological Traceability to a Measurement Unit.** – Metrological traceability where the reference is the definition of a measurement unit through its practical realization.

(Added 2013)

**Section 2. Systems of Weights and Measures**

[The International System of Units (SI)](#Note2TheInternationalSystemofUnits) and the system of weights and measures in customary use in the United States are jointly recognized, and either one or both of these systems shall be used for all commercial purposes in the state.

The definitions of basic units of weight and measure, the tables of weight and measure, and weights and measures equivalents as published by NIST are recognized and shall govern weighing and measuring equipment and transactions in the state.

(Amended 1993)

***NOTE 2:******SI or SI Unit.***– *means the International System of Units as established in 1960 by the General Conference on Weights and Measures and interpreted or modified for the United States by the Secretary of Commerce. See “Interpretation of the International System of Units for the United States” in “Federal Register” (Volume 73, No. 96, pages 28432 to 28433) for May 16, 2008, and 15 United States Code, Section 205a ‑ 205l “Metric Conversion.” See also NIST Special Publication 330, “The International System of Units (SI),” 2008 edition and NIST Special Publication 811, “Guide for the Use of the International System of Units (SI),” 2008 edition that are available at* [**www.nist.gov/pml/wmd/metric**](http://www.nist.gov/pml/wmd/metric)**/index.cfm** *or by contacting TheSI@nist.gov.*

(Added 1993)

**Section 3. Physical Standards**

Weights and measures that are traceable to the U.S. prototype standards supplied by the Federal Government, or approved as being satisfactory by NIST, shall be the state reference and working standards of weights and measures, and shall be maintained in such calibration as prescribed by the NIST as demonstrated through laboratory accreditation or recognition. All field standards may be prescribed by the Director and shall be verified upon their initial receipt and as often thereafter as deemed necessary by the Director.

(Amended 2005)

**Section 4. Technical Requirements for Weighing and Measuring Devices** [***NOTE 3***, page 20]

The specifications, tolerances, and other technical requirements for commercial, law enforcement, data gathering, and other weighing and measuring devices as adopted by the NCWM, published in the National Institute of Standards and Technology Handbook 44, “Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices,” and supplements thereto or revisions thereof, shall apply to weighing and measuring devices in the state, except insofar as modified or rejected by regulation.

(Amended 1975)

***NOTE 3:*** *Sections 4 through 10 of the Uniform Weights and Measures Law adopt NIST Handbook 44 and Uniform Regulations in NIST Handbook 130 by citation. In addition, these sections adopt supplements to and revisions of NIST Handbook 44 and the Uniform Regulations “except insofar as modified or rejected by regulation.” Some state laws may not permit enacting a statute that provides for automatic adoption of future supplements to or revisions of a regulation covered by that statute. If this should be the case in a given state, two alternatives are available:*

1. Sections 4 through 10 may be enacted without the phrase “. . . and supplements thereto or revisions thereof . . .”; or
2. Sections 4 through 10 may be enacted by replacing “. . . except insofar as modified or rejected by regulation . . .” with the phrase “. . . as adopted, or amended and adopted, by rule of the director.”

*Either alternative requires action on the part of the Director to adopt a current version of Handbook 44 and Uniform Laws or Regulations each time a supplement is added or revision is made by the NCWM.*

**Section 5. Requirements for Packaging and Labeling** [***NOTE 3***, page 20]

The Uniform Packaging and Labeling Regulation as adopted by the NCWM and published in the National Institute of Standards and Technology Handbook 130, “Uniform Laws and Regulations,” and supplements thereto or revisions thereof, shall apply to packaging and labeling in the state, except insofar as modified or rejected by regulation.

(Added 1983)

**Section 6. Requirements for the Method of Sale of Commodities** [***NOTE 3***, page 20]

The Uniform Regulation for the Method of Sale of Commodities as adopted by the NCWM and published in National Institute of Standards and Technology Handbook 130, “Uniform Laws and Regulations,” and supplements thereto or revisions thereof, shall apply to the method of sale of commodities in the state, except insofar as modified or rejected by regulation.

(Added 1983)

**Section 7. Requirements for Unit Pricing** [***NOTE 3***, page 20]

The Uniform Unit Pricing Regulation as adopted by the NCWM and published in the National Institute of Standards and Technology Handbook 130, “Uniform Laws and Regulations,” and supplements thereto or revisions thereof, shall apply to unit pricing in the state, except insofar as modified or rejected by regulation.

(Added 1983)

**Section 8. Requirements for the Registration of Servicepersons and Service Agencies for Commercial Weighing and Measuring Devices** [***NOTE 3***, page 20]

The Uniform Regulation for the Voluntary Registration of Servicepersons and Service Agencies for Commercial Weighing and Measuring Devices as adopted by the National NCWM and published in the National Institute of Standards and Technology Handbook 130, “Uniform Laws and Regulations,” and supplements thereto or revisions thereof, shall apply to the registration of servicepersons and service agencies in the state, except insofar as modified or rejected by regulation.

(Added 1983)

**Section 9. Requirements for Open Dating** [***NOTE 3***, page 20]

The Uniform Open Dating Regulation as adopted by the NCWM and published in the National Institute of Standards and Technology Handbook 130, “Uniform Laws and Regulations,” and supplements thereto or revisions thereof, shall apply to open dating in the state, except insofar as modified or rejected by regulation.

(Added 1983)

**Section 10. Requirements for Type Evaluation** [***NOTE 3***, page 20]

The Uniform Regulation for National Type Evaluation as adopted by the NCWM and published in National Institute of Standards and Technology Handbook 130, “Uniform Laws and Regulations,” and supplements thereto or revisions thereof, shall apply to type evaluation in the state, except insofar as modified or rejected by regulation.

(Added 1985)

**Section 11.** **State Weights and Measures Division**

There shall be a State Division of Weights and Measures located for administrative purposes within the Department of \_\_\_\_\_\_\_\_\_ (agency, etc.). The Division is charged with, but not limited to, performing the following functions on behalf of the citizens of the state:

1. Assuring that weights and measures in commercial services within the state are suitable for their intended use, properly installed, and accurate, and are so maintained by their owner or user.
2. Preventing unfair or deceptive dealing by weight or measure in any commodity or service advertised, packaged, sold, or purchased within the state.
3. Making available to all users of physical standards or weighing and measuring equipment the precision calibration and related metrological certification capabilities of the weights and measures facilities of the Division.
4. Promoting uniformity, to the extent practicable and desirable, between weights and measures requirements of this state and those of other states and federal agencies.
5. Encouraging desirable economic growth while protecting the consumer through the adoption by rule of weights and measures requirements as necessary to assure equity among buyers and sellers.

(Added 1976)

**Section 12. Powers and Duties of the Director**

The Director shall:

1. maintain traceability of the state standards as demonstrated through laboratory accreditation or recognition;

(Amended 2005)

1. enforce the provisions of this Act;
2. issue reasonable regulations for the enforcement of this Act, which regulations shall have the force and effect of law;
3. establish labeling requirements, establish requirements for the presentation of cost per unit information, establish standards of weight, measure, or count, and reasonable standards of fill for any packaged commodity; and establish requirements for open dating information;

(Added 1973)

1. grant any exemptions from the provisions of this Act or any regulations promulgated pursuant thereto when appropriate to the maintenance of good commercial practices within the state;
2. conduct investigations to ensure compliance with this Act;
3. delegate to appropriate personnel any of these responsibilities for the proper administration of this office;
4. verify the field standards for weights and measures used by any jurisdiction within the state, before being put into service, tested annually or as often thereafter as deemed necessary by the Director based on statistically evaluated data, and approve the same when found to be correct;

(Amended 2005)

1. have the authority to inspect and test commercial weights and measures kept, offered, or exposed for sale;

(Amended 1995)

1. inspect and test, to ascertain if they are correct, weights and measures commercially used:
2. in determining the weight, measure, or count of commodities or things sold, or offered or exposed for sale, on the basis of weight, measure, or count; or
3. in computing the basic charge or payment for services rendered on the basis of weight, measure, or count.
4. test all weights and measures used in checking the receipt or disbursement of supplies in every institution, the maintenance of which funds are appropriated by the legislature of the state;
5. approve for use, and may mark, such commercial weights and measures as are found to be correct, and shall reject and order to be corrected, replaced, or removed such commercial weights and measures as are found to be incorrect. Weights and measures that have been rejected may be seized if not corrected within the time specified or if used or disposed of in a manner not specifically authorized. The Director shall remove from service and may seize the weights and measures found to be incorrect that are not capable of being made correct;

(Amended 1995)

1. weigh, measure, or inspect packaged commodities kept, offered, or exposed for sale, sold, or in the process of delivery, to determine whether they contain the amounts represented and whether they are kept, offered, or exposed for sale in accordance with this Act or regulations promulgated pursuant thereto. In carrying out the provisions of this section, the Director shall employ recognized sampling procedures, such as are adopted by the NCWM and are published in the National Institute of Standards and Technology Handbook 133, “Checking the Net Contents of Packaged Goods;”

(Amended 1984, 1988, and 2000)

1. prescribe, by regulation, the appropriate term or unit of weight or measure to be used, whenever the Director determines that an existing practice of declaring the quantity of a commodity or setting charges for a service by weight, measure, numerical count, time, or combination thereof, does not facilitate value comparisons by consumers, or offers an opportunity for consumer confusion;

(Amended 1991)

1. allow reasonable variations from the stated quantity of contents, which shall include those caused by loss or gain of moisture during the course of good distribution practice or by unavoidable deviations in good manufacturing practice only after the commodity has entered intrastate commerce;
2. provide for the training of weights and measures personnel, and may establish minimum training and performance requirements, which shall then be met by all weights and measures personnel, whether county, municipal, or state. The Director may adopt the training standards of the National Conference on Weights and Measures’ National Training Program and the laboratory metrology standards specified by the NIST accreditation and/or recognition requirements; and

(Added 1991) (Amended 2005)

1. verify advertised prices, price representations, and point-of-sale systems, as deemed necessary, to determine:
2. the accuracy of prices and computations and the correct use of the equipment; and
3. if such system utilizes scanning or coding means in lieu of manual entry, the accuracy of prices printed or recalled from a database. In carrying out the provisions of this section, the Director shall:
   1. employ recognized procedures, such as are designated in National Institute of Standards and Technology Handbook 130, *Uniform Laws and Regulations* *in the Areas of Legal Metrology and Engine Fuel Quality*, “Examination Procedures for Price Verification;”
   2. issue necessary rules and regulations regarding the accuracy of advertised prices and automated systems for retail price charging (referred to as “point-of-sale systems”) for the enforcement of this section, which rules shall have the force and effect of law; and
   3. conduct investigations to ensure compliance.

(Added 1995)

**Section 13. Special Police Powers**

When necessary for the enforcement of this Act or regulations promulgated pursuant thereto, the Director is:

1. Authorized to enter any commercial premises during normal business hours, except that in the event such premises are not open to the public, he/she shall first present his/her credentials and obtain consent before making entry thereto, unless a search warrant has previously been obtained.
2. Empowered to issue stop use, hold, and removal orders with respect to any weights and measures commercially used, stop sale, hold, and removal orders with respect to any packaged commodities or bulk commodities kept, offered, or exposed for sale.
3. Empowered to seize, for use as evidence, without formal warrant, any incorrect or unapproved weight, measure, package, or commodity found to be used, retained, offered, or exposed for sale or sold in violation of the provisions of this Act or regulations promulgated pursuant thereto.
4. Empowered to stop any commercial vehicle and, after presentation of his credentials, inspect the contents, require the person in charge of that vehicle to produce any documents in his possession concerning the contents, and require him to proceed with the vehicle to some specified place for inspection.
5. With respect to the enforcement of this Act, the Director is hereby vested with special police powers, and is authorized to arrest, without formal warrant, any violator of this Act.

**Section 14. Powers and Duties of Local Officials**

Any weights and measures official appointed for a county or city shall have the duties and powers enumerated in this Act, excepting those duties reserved to the state by law or regulation. These powers and duties shall extend to their respective jurisdictions, except that the jurisdiction of a county official shall not extend to any city for which a weights and measures official has been appointed. No requirement set forth by local agencies may be less stringent than or conflict with the requirements of the state.

(Amended 1984)

**Section 15. Misrepresentation of Quantity**

No person shall:

1. sell, offer, or expose for sale a quantity less than the quantity represented; nor
2. take more than the represented quantity when, as buyer, he/she furnishes the weight or measure by means of which the quantity is determined; nor
3. represent the quantity in any manner calculated or tending to mislead or in any way deceive another person.

(Amended 1975 and 1990)

**Section 16. Misrepresentation of Pricing**

No person shall misrepresent the price of any commodity or service sold, offered, exposed, or advertised for sale by weight, measure, or count, nor represent the price in any manner calculated or tending to mislead or in any way deceive a person.

**Section 17. Method of Sale**

Except as otherwise provided by the Director or by firmly established trade custom and practice,

1. commodities in liquid form shall be sold by liquid measure or by weight; and
2. commodities not in liquid form shall be sold by weight, by measure, or by count.

The method of sale shall provide accurate and adequate quantity information that permits the buyer to make price and quantity comparisons.

(Amended 1989)

**Section 18. Sale from Bulk**

All bulk sales in which the buyer and seller are not both present to witness the measurement, all bulk deliveries of heating fuel, and all other bulk sales specified by rule or regulation of the director shall be accompanied by a delivery ticket containing the following information:

1. the name and address of the buyer and seller;
2. the date delivered;
3. the quantity delivered and the quantity upon which the price is based, if this differs from the delivered quantity for example, when temperature compensated sales are made;

(Amended 1991)

1. the unit price, unless otherwise agreed upon by both buyer and seller;

(Added 1991)

1. the identity in the most descriptive terms commercially practicable, including any quality representation made in connection with the sale; and
2. the count of individually wrapped packages, if more than one, in the instance of commodities bought from bulk but delivered in packages.

(Amended 1983 and 1991)

**Section 19. Information Required on Packages**

Except as otherwise provided in this Act or by regulations promulgated pursuant thereto, any package, whether a random package or a standard package, kept for the purpose of sale, or offered or exposed for sale, shall bear on the outside of the package a definite, plain, and conspicuous declaration of:

1. the identity of the commodity in the package, unless the commodity is a food, other than meat or poultry, that was repackaged in a retail establishment and the food is displayed to the purchaser under either of the following circumstances:
   * + 1. its interstate labeling is clearly in view or with a counter card, sign or other appropriate device bearing prominently and conspicuously the common or usual name of the food; or
       2. the common or usual name of the food is clearly revealed by its appearance.

(Amended 2001)

1. the quantity of contents in terms of weight, measure, or count; and,
2. the name and place of business of the manufacturer, packer, or distributor, in the case of any package kept, offered, or exposed for sale, or sold in any place other than on the premises where packed.

(Amended 1991)

**Section 20. Declarations of Unit Price on Random Weight Packages**

In addition to the declarations required by Section 19. Information Required on Packages of this Act, any package being one of a lot containing random weights of the same commodity, at the time it is offered or exposed for sale at retail, shall bear on the outside of the package a plain and conspicuous declaration of the price per kilogram or pound and the total selling price of the package.

(Amended 1986)

**Section 21. Advertising Packages for Sale**

Whenever a packaged commodity is advertised in any manner with the retail price stated, there shall be closely and conspicuously associated with the retail price a declaration of quantity as is required by law or regulation to appear on the package.

(Amended 1993)

**Section 22.** **Prohibited Acts**

No person shall:

1. use or have in possession for use in commerce any incorrect weight or measure;
2. sell or offer for sale for use in commerce any incorrect weight or measure;
3. remove any tag, seal, or mark from any weight or measure without specific written authorization from the proper authority;
4. hinder or obstruct any weights and measures official in the performance of his or her duties; or
5. violate any provisions of this Act or regulations promulgated under it.

**Section 23. Civil Penalties**

**23.1. Assessment of Penalties.** – Any person who by himself or herself, by his or her servant or agent, or as the servant or agent of another person, commits any of the acts enumerated in Section 22. Prohibited Acts may be assessed by the \_\_\_\_\_\_\_\_\_\_ a civil penalty of:

1. not less than $\_\_\_\_\_\_\_\_\_\_ nor more than $\_\_\_\_\_\_\_\_\_\_ for a first violation;
2. not less than $\_\_\_\_\_\_\_\_\_\_ nor more than $\_\_\_\_\_\_\_\_\_\_ for a second violation within \_\_\_\_\_\_\_\_\_\_ from the date of the first violation; and
3. not less than $\_\_\_\_\_\_\_\_\_\_ nor more than $\_\_\_\_\_\_\_\_\_\_ for a third violation within \_\_\_\_\_\_\_\_\_\_ from the date of the first violation.

**23.2. Administrative Hearing.** – Any person subject to a civil penalty shall have a right to request an administrative hearing within \_\_\_\_\_\_\_\_\_\_ days of receipt of the notice of the penalty. The Director or his/her designee shall be authorized to conduct the hearing after giving appropriate notice to the respondent. The decision of the Director shall be subject to appropriate judicial review.

**23.3. Collection of Penalties.** – If the respondent has exhausted his or her administrative appeals and the civil penalty has been upheld, he or she shall pay the civil penalty within \_\_\_\_\_\_\_\_\_\_ days after the effective date of the final decision. If the respondent fails to pay the penalty, a civil action may be brought by the Director in any court of competent jurisdiction to recover the penalty. Any civil penalty collected under this Act shall be transmitted to \_\_\_\_\_\_\_\_\_\_.

(Added 1989) (Amended 1995)

**Section 24. Criminal Penalties**

**24.1. Misdemeanors.** – Any person who commits any of the acts enumerated in Section 22. Prohibited Acts shall be guilty of a Class \_\_\_\_\_\_\_\_\_\_ misdemeanor and upon a first conviction thereof shall be punished by a fine of not less than $\_\_\_\_\_\_\_\_\_\_ nor more than $\_\_\_\_\_\_\_\_\_\_ or by imprisonment for not more than \_\_\_\_\_\_\_\_\_\_ months, or both. Upon a subsequent conviction thereof, he or she shall be punished by a fine of not less than $\_\_\_\_\_\_\_\_\_\_ nor more than $\_\_\_\_\_\_\_\_\_\_ or by imprisonment for up to \_\_\_\_\_\_\_\_\_\_, or both.

**24.2. Felonies.** – Any person who:

1. intentionally violates any provisions of this Act or regulations under it;
2. is convicted under the misdemeanor provisions of Section 24(a) more than three times in a two‑year period; or
3. uses or has in his or her possession a device which has been altered to facilitate fraud shall be guilty of a Class \_\_\_\_\_\_\_\_\_\_ felony and upon a first offense shall be punished by a fine of not less than $\_\_\_\_\_\_\_\_\_\_, or by imprisonment for not more than \_\_\_\_\_\_\_\_\_\_, or both.

(Added 1989)

**Section 25. Restraining Order and Injunction**

The Director is authorized to apply to any court of competent jurisdiction for a restraining order, or a temporary or permanent injunction, restraining any person from violating any provision of this Act.

(Retitled 1989)

**Section 26. Presumptive Evidence**

Whenever there shall exist a weight or measure or weighing or measuring device in or about any place in which or from which buying or selling is commonly carried on, there shall be a rebuttable presumption that such weight or measure or weighing or measuring device is regularly used for the business purposes of that place.

**Section 27. Separability Provision**

If any provision of this Act is declared unconstitutional, or the applicability thereof to any person or circumstance is held invalid, the constitutionality of the remainder of the Act and the applicability thereof to other persons and circumstances shall not be affected thereby.

**Section 28. Repeal of Conflicting Laws**

All laws and parts of laws contrary to or inconsistent with the provisions of this Act are repealed except as to offenses committed, liabilities incurred, and claims made there under prior to the effective date of this Act.

**Section 29. Regulations to be Unaffected by Repeal of Prior Enabling Statute**

The adoption of this Act or any of its provisions shall not affect any regulations promulgated pursuant to the authority of any earlier enabling statute unless inconsistent with this Act or modified or revoked by the Director.

**Section 30. Effective Date**

This Act shall become effective on \_\_\_\_\_\_\_\_\_\_.

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