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CSE 310
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Assignment 1

EXTERNAL LIBRARIES USED

- dns.query

This was used to create DNS queries which were sent through TCP with a given IP address.

- re

This was used to handle regular expression for matching valid IP addresses.

- time

This was used to time the performance of the entire program, starting with sending the first query using TCP and ending with finding the correct IP address down the DNS hierarchy.

- datetime

This was used to get the WHEN section of Part 1 in order to specify the date and time I used the program.

INSTRUCTIONS

1. Run the program
2. Specify a domain name, either with or without www.
3. The returned list will specify:
 - the initial query
 - the answer section, including the time-to-live (TTL) and the A record's resolved IP address
 - the total query performance time
 - when the query was initially sent using TCP, both date and time

All CNAMEs and NS names should be resolved automatically to an A record. This is directly handled through my program and commented accordingly.