URL Parser Documentation

# Description

The file ‘url\_parser.cpp’ contains C++ code that takes an input URL string and displays its components as output, showing any errors within a component. The file ‘url\_parser’ is the executable compiled from the previous file.

# Input

To run the executable with a URL as input, type the following command: <pathname to executable> <URL string>. Here is an example: ./url\_parser https://cs.utdallas.edu:80/directory/faculty/people.html?name=Robert. There should be a single space between the pathname, which can be absolute or relative, and the URL string. There should be no spaces in the URL.

# Output

After a command is run, the output will be eight lines of text containing information about the URL string inputted. The number of arguments in the command line, the file path name inputted, the URL entered, and the protocol, domain, port, file path, and parameter will be displayed. If a component was not found or contained an error, an error message will replace the standard output of that particular line.

Here is an example:

Num arguments: 2

File path name: ./url\_parser

URL entered: https://cs.utdallas.edu:80/directory/faculty/people.html?name=Robert

Protocol: https

Domain: cs.utdallas.edu

Port: 80

File path: /directory/faculty/people.html

Parameter: ?name=Robert