

Query String Parsing Homework

Query string - The part of a URL that contains data to be passed to CGI programs.

Parse - processing of text to extract desired data.

Your Goal Given a query string find the **value** for a given **name**

Example query strings:

- secretWord=March&guess=w&misses=3
- secretWord=March+Madness&guess=m&misses=1
- firstname=this+is+a+field&secondname=was+it+clear+%28already%29%3F

Complete the getValue function to:

- return true if the name was found in the queryString and false otherwise
- if the name is found in the queryString the associated value should be copied to the value argument

Assumptions

- each name is at most 49 characters long
- each value is at most 49 characters long
- the entire query string is at most 999 characters long

```
#include<iostream>
using namespace std;

bool getValue(const char queryString[], const char name[], char value[])
{
    //todo: make the function work
}

void main()
{
    char queryString[1000];
    char name[50];
    char value[50];

    cout << "Enter an example query string.\n";
    cin.getline(queryString, 1000);

    do
    {
        cout << "Enter the name of a value you would like to find or 'Quit'.\n";
        cin.getline(name, 50);

        if( getValue(queryString, name, value) )
        {
            cout << name << "'s value is '" << value << "'\n";
        }
        else
        {
            cout << name << " is not in the query string.\n";
        }
    }
    while( strcmp(name, "Quit") != 0);
}
```