

## Query String Parsing Homework

**Query string** - On the World Wide Web, a **query string** is the part of a uniform resource locator (URL) containing data that does not fit conveniently into a hierarchical path structure. The **query string** commonly includes fields added to a base URI by a Web browser or other client application, for example as part of an HTML form.

**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

```
#include<iostream>
#include<string>

using namespace std;

bool getValue(const string& queryString, const string& name, string& value)
{
    //todo: make the function work. You may add other functions also.
}

void main()
{
    string queryString;
    string name;
    string value;

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

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

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