

Comp 170 Homework

Implement the fixQueryString in the program below. Follow the instructions found in the comments. Submit your completed source code on eazel.

To compile your program on taz, assuming your source code is in /home/your_username/public_html
g++ queryString.cpp -o cgi-bin/queryString

To browse to your cgi webpage send your web-browser to:

http://taz.harding.edu/~your_user_name/cgi-bin/queryString

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

const int MAX_POST_LENGTH = 1000;

void fixQueryString(char queryString[]);

int main()
{
    cout << "content-Type:text/html\n\n";
    char *queryString = getenv( "QUERY_STRING" );

    cout << "<html><body><form method='post'>\n" << endl;
    cout << "<font color='blue'><h1>" << endl;

    if(strlen(queryString) > 0 )
    {
        fixQueryString( queryString );
        cout << queryString << endl;
    }
    else
    {
        cout << "There was not a query string" << endl;
    }
    cout << "</h1></font>\n" << endl;

    cout << "</form></body></html>\n" << endl;
}

void fixQueryString(char queryString[])
{
    //GENERAL ALGORITHM
    //examine each character in the query string
    //replace all '+' with ' '
    //when you find a % replace it and the next two characters
    //with the character that is represented by the ascii value given

    //Tips for converting two characters in a string to the character it represents
    //Each of the two characters will be '0', '1', '2', ..., 'E', or 'F'
    //initialize an integer to 0
    //add to it the decimal value of the first character * 16
    //also add to it the decimal value of the second character
    //replace the spot in the array with the % with this integer type-cast to a char

    //Copy over the two characters that held the hex values with the rest of the string
    //strcpy( s + i, string + i + 2);
    //you may need to add or subtract to account for the current
    //value of i when you are doing the copy
}
```