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AP CSP
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Using a Language Reference

#1

- https://en.cppreference.com/w/cpp/string/basic_string/erase
[2](#)
- <http://www.cplusplus.com/reference/string/string/erase/>

"string::erase" erases values from the string.

- The first parameter is the starting point for deletion
- The second parameter is how many values to delete from the string

Original "str" = The rice is cooking

"str" after "erase" = The king

#2

Source Code:

```
#include <iostream>
#include <iterator>
#include <regex>
#include <string>
//include statements

/**
 * Name: Humna Sultan
 * Program Name: C++ Language Reference
 * Date: 23 March 2020
 * Extra Thing: Extra string example with regex_replace (cat)
 */

int main()
{
```

```

    std::string str{ "I saw a red car yesterday. Then it
shredded a tire backing over a rake that was red." };
    std::cout << str << std::endl;
    //declares string and prints

    std::regex red_re(" red| RED| Red| rEd| reD| REd| rED|
ReD");
    //declares regex with values to be replaced

std::regex_replace(std::ostreambuf_iterator<char>(std::cout),
str.begin(), str.end(), red_re, " blue");
    //replaces and prints values

    std::cout << std::endl;
    std::cout << "-----";
    std::cout << std::endl;
    //border between lab and extra

    std::string cat{ "I have a fluffy cat named Coco. She is a
Siamese cat." };
    //declares string

    std::regex cat_re1("Coco");
    std::regex cat_re2("Siamese");
    //declares regex and has value to remove
    std::cout << cat << std::endl;
    //prints string

std::regex_replace(std::ostreambuf_iterator<char>(std::cout),
cat.begin(), cat.end(), cat_re1, "Fluffy");
    //replaces value and prints
    std::cout << std::endl;
    //new line

std::regex_replace(std::ostreambuf_iterator<char>(std::cout),
cat.begin(), cat.end(), cat_re2, "Persian");
    //replaces value and prints

```

```
    return 0;  
}
```

Explanation:

I recieved my information from the cppreference. I searched for "replace" in the search box and scrolled down until I found "std::regex_replace". In order to understand the way that the library function worked, I went and looked at the examples. Upon viewing the examples, I understood what the parameters were and I changed them based on the purpose of my program. I also looked at the includes that were necessary for the library function so that it would work properly in my program. The link that I found my information at is:

https://en.cppreference.com/w/cpp/regex/regex_replace