

Quizzes



Name:

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Explain the role of the compiler in the software development process.

Indicate what the following program will display:

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

using namespace std;

int main()
{
    string question = "What do you get someone who has everything for Christmas?";
    string word = question.substr(2,15);
    cout << 'Q' << word << "Q\n";
    int i;
    for(i=0; i<word.size(); ++i) {
        cout << i;
        ++i;
    }
    cout << endl << i << endl;

    string answer = "A faulty alarm system";

    return 0;
}
```

Rewrite the following series of `if/else` statements as a `switch` statement.

```
char digit;
std::cin >> digit;
if(digit == '0') {
    std::cout << "||::";
} else if(digit == '1') {
    std::cout << ">::|";
} else if(digit == '2') {
    std::cout << ">::|";
} else {
    std::cout << "::::";
}
```

The following program uses a function called `flipCase`. Write the `.h` and `.cpp` files for this function.

```
#include <iostream>
#include <string>
#include "flipCase.h"

using std::cin;
using std::cout;
using std::string;

int main()
{
    cout << "Please enter a line of text.\n"
    string line;
    std::getline(cin, line);
    string LINE = flipCase(line);
    cout << "Here is what the line of text looks like with all upper case\n"
        << "characters converted to lower case and all lower case characters\n"
        << "converted to upper case:\n\n";
    cout << LINE << '\n';

    return EXIT_SUCCESS;
}
```

The following program uses a function called `flipCase`. Write the `.h` and `.cpp` files for this function. **Note: This is not the same function as you wrote last week.** Hint: the way the function and `main` exchange data is different.

```
#include <iostream>
#include <string>
#include "flipCase.h"

using std::cin;
using std::cout;
using std::string;

int main()
{
    cout << "Please enter a line of text.\n"
    string line;
    std::getline(cin, line);
    flipCase(line);
    cout << "Here is what the line of text looks like with all upper case\n"
        << "characters converted to lower case and all lower case characters\n"
        << "converted to upper case:\n\n";
    cout << line << '\n';

    return EXIT_SUCCESS;
}
```

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Briefly describe the final project that you will begin working on today.

Write a function called `print` that takes in an output stream and a list of strings. The function should send **every other** element in the list to the output stream. (first, third, fifth, etc...)