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Time left 0:33:12

## Question 3

Not yet answered

Marked out of 15.00

Figure 1 below shows the screen output of Program 1. Complete the program to generate the output as shown in Figure 1.

**Note:** You cannot create new variables and cannot use the overloaded operator for concatenation.

You are only allowed to use the functions to complete the program below.

Output: Welcome, UTM Computer Science students

\*Note: All the stated string variables are empty

Figure 1: Screen output of Program 1

```
// Program 1
#include <iostream>
#include <string>
#include <cstring>
using namespace std;
int main(){
    string name("mtu students");
    string word1="Comp";
    string word2="Sci";
    string word3="Welcome, ";
    word1. [ ] (4, "uting ");
    word1. [ ] (10, word2);
    word1. [ ] (13, "ence ");
    name. [ ] (4,word1);
    word1.clear();
    word2.clear();
    word1.assign(name.substr(0,3));
    string::iterator it;
    for(it=word1.begin(); it!=word1.end(); it++){ word2+=: [ ] (*it); }
    word1.clear();
    for(int i=0; i<word2.length(); i++){
        word1=word2. [ ] (i, 1)+word1;
    }
    name.replace(0,3,word1);
    word3.append(name);
    word3.swap(name);
    word3.clear();
    name. [ ] (name. [ ] ("Computing"),9,"Computer");
    cout<<"Output: "<<name<<endl; // final output: Welcome, UTM Computer Science
students
string variables
    name.clear(); word1.clear(); word2.clear(); word3.clear(); // clear all
    if(name. [ ] && word1. [ ]
        && word2. [ ] && word3. [ ] )
        cout<<"\n*Note: All the stated string variables are empty"; // prove empty
    return 0;
}
```

1. Which function is used to change the size of the vector to the specified value?

**IMPORTANT:** To answer Questions 2 to 3, please refer to the variable declarations (the first four statements in the `main()` function) in **Program 1**.

2. What is the output of `word3.append(name)`?

3. What is the output of `(word1.assign(name.substr(0,3))).begin()`?

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