

**ENG236 Computer Programming**  
**Quiz 15 (26 January 2010)**  
**Solution**

1. (100 marks) Referring to the program below

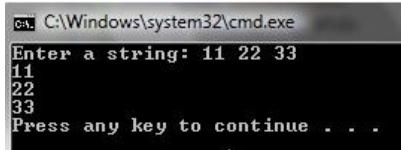
```
#include <iostream>
using namespace std;

int main()
{   char stringOne[256];
    char stringTwo[256];
    char stringThree[256];

    cout << "Enter a string: ";
    cin >> stringOne;
    cout << stringOne << endl;
    cin >> stringTwo;
    cout << stringTwo << endl;
    cin >> stringThree;
    cout << stringThree << endl;

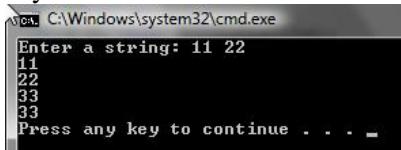
    return 0;
}
```

- a. If you enter “11 22 33 \n” for the input, what would be printed on the screen?



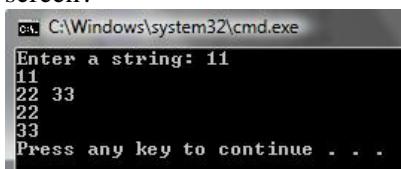
```
C:\Windows\system32\cmd.exe
Enter a string: 11 22 33
11
22
33
Press any key to continue . . .
```

- b. If you enter “11 22 \n 33 \n” for the input, what would be printed on the screen?



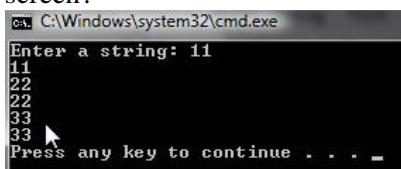
```
C:\Windows\system32\cmd.exe
Enter a string: 11 22
11
22
33
33
Press any key to continue . . .
```

- c. If you enter “11 \n 22 33 \n” for the input, what would be printed on the screen?



```
C:\Windows\system32\cmd.exe
Enter a string: 11
11
22 33
22
33
33
Press any key to continue . . .
```

- d. If you enter “11 \n 22 \n 33 \n” for the input, what would be printed on the screen?



```
C:\Windows\system32\cmd.exe
Enter a string: 11
11
22
22
33
33
33
Press any key to continue . . .
```

2 . (100 marks) Referring to the program below

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

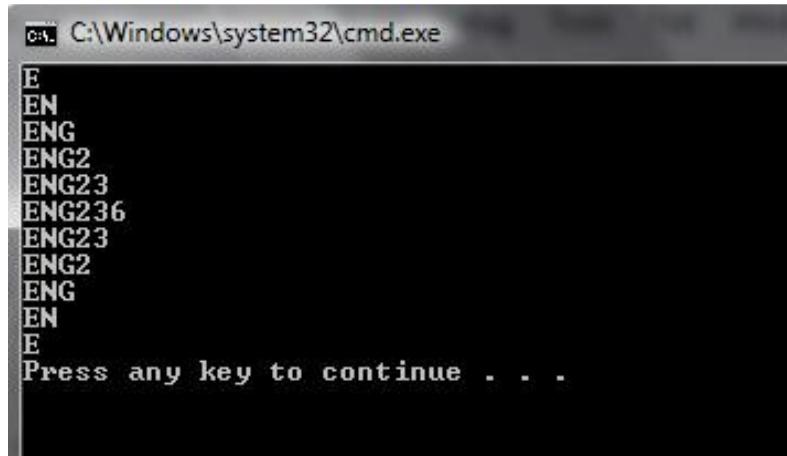
int main()
{
    char One[] = "ENG236";

    for (unsigned int i=1; i<=strlen(One); i++)
        cout.write(One,i) << endl;

    for (unsigned int i=strlen(One)-1; i>0 ; i--)
        cout.write(One,i) << endl;

    return 0;
}
```

write down the output of this program.



The screenshot shows a Windows Command Prompt window titled 'C:\Windows\system32\cmd.exe'. The window displays the output of the provided C++ program. The output consists of the string 'ENG236' printed twice, once forward and once backward, followed by a prompt to press a key to continue. The text is in white on a black background.

```
E
EN
ENG
ENG2
ENG23
ENG236
ENG23
ENG2
ENG
EN
E
Press any key to continue . . .
```