

CS101 – Computer Programming
Quiz for Friday Batch – 17 October 2014

Q1. Consider the following program

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

int finalResult(int *intResult1, int intResult2) {
    int *intTemp1 = &intResult2;
    int **intTemp2 = &intTemp1;
    *intTemp1 = *intTemp1+1;
    return *intResult1 - EXP;
}

int main() {
    int intNum1=14, intNum2=7;
    cout<<finalResult(&intNum1,intNum2)<<endl;
    return 0;
}
```

Select the appropriate choices

- A) The function 'finalResult' will return value 6 to the main function, if we replace EXP with ***intTemp1**
- B) The function 'finalResult' will return value 7 to the main function, if we replace EXP with ***(&intResult2)**.
- C) The function 'finalResult' will return value 7 to the main function, if we replace EXP with ****intTemp2**
- D) The function 'finalResult' will return value 6 to the main function, if we replace EXP with ****intTemp2**
- E) None of these

Refer to Question 2 on the next page

Q2. Consider the following code that reads a sentence and capitalises the first letter of each word of the sentence. If the input sentence is - 'hi hOw are yoU' - the result will be - 'Hi HOw Are YoU'. The ASCII codes for 'a' to 'z' range from 97 to 122 respectively and ASCII codes for 'A' to 'Z' range from 65 to 90 respectively.

```
int main() {
    char sentence[200];
    int i, character_count=0;
    cout<<"Enter a string: "<<endl;
    gets(sentence);

    for(i=0;sentence[i]!='\0';i++) {
        if(sentence[i]==' ')
            continue;
        if(sentence[i]!=' ') {
            character_count++;
            // Choose the missing 'Snippet Code' from the options and insert here
        }
    }
    return 1;
}
```

Option	Snippet Code
A	<pre>//Snippet Code A if(character_count == 1 && sentence[i]<='z' && sentence[i]>='a') sentence[i] = sentence[i] - 'a' + 'A'; if(sentence[i+1]==' ' sentence[i+1]=='\0') character_count=0;</pre>
B	<pre>//Snippet Code B if(character_count == 0 && sentence[i]<='z' && sentence[i]>='a') sentence[i] = sentence[i] - 'a' + 'A'; if(sentence[i+1]==' ' sentence[i+1]=='\0') character_count=0;</pre>
C	<pre>//Snippet Code C if(character_count == 1 && sentence[i]<='Z' && sentence[i]>='A') sentence[i] = sentence[i] - 'A' + 'a'; if(sentence[i+1]==' ' sentence[i+1]=='\0') character_count=0;</pre>
D	<pre>//Snippet Code D if(character_count == 1 && sentence[i]<='z' && sentence[i]>='a') sentence[i] = sentence[i] - 'A' + 'a'; if(sentence[i+1]==' ' sentence[i+1]=='\0') character_count=0;</pre>