FUNCTION QUIZ

1. What is printed by the following code?

```
#include<iostream>
using namespace std;
int findCode(char);
int main()
    char char1, char2, char3;
    char1 = 'S';
char2 = '*';
    char3 = 'd';
    cout << "Press the following buttons: " << endl;</pre>
    cout << findCode(char1) << ' ' << findCode(char2) <<
    ' ' << findCode(char3) << endl;</pre>
   return 0;
int findCode(char c)
    if (c >= 'A' && c <= 'Z')
           return 3;
    else if (c == '*')
            return 2;
    else
            return 1;
}
```

2. Function Writing:

- a. Write the prototype of a value-returning function allPositives. This function takes three double parameters. It returns true if all three parameters are positive, and false otherwise.
- b. Write a sample call for this function. (Assume that you are calling from main)
- c. Write the definition (header and body) of the function.

- 3.
- a. What is the difference between a parameter sent by value and a parameter sent by reference?
- b. In question 4 on this quiz (on the next page!), which line (just put line number) has the **prototype** for the function doubleSwap?
- c. In question 4 on this quiz (on the next page!) which line (just put line number) has the **call** to the function doubleSwap?
- d. In question 4 on this quiz (on the next page!) which parameter(s) are sent by reference and which are sent by value?

4. What is printed by the following code?

```
#include<iostream>
1
     using namespace std;
3
     void doubleSwap(int, int &, int &);
4
     int main()
5
     int a = 10, b = 20, c = 30;
6
7
     cout << a << b << c << endl;
8
     doubleSwap(a, b, c);
9
     cout << a << b << c << endl;</pre>
10
11
    cout << '!' << a << endl;
12
13
    void doubleSwap(int x, int & y, int & z)
14
     {
15
    x = y;
16
    y = z * 2;
17
    z = x * 2;
18
     }
```