FUNCTION QUIZ

1. What is printed by the following code?

```c++
#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;
    cout << findCode(char1) << ' ' << findCode(char2) << ' ' << findCode(char3) << endl;
    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?

```cpp
#include <iostream>
using namespace std;
void doubleSwap(int, int &, int &);
int main()
{
    int a = 10, b = 20, c = 30;
    cout << a << b << c << endl;
    doubleSwap(a, b, c);
    cout << a << b << c << endl;
    cout << '!' << a << endl;
}

void doubleSwap(int x, int & y, int & z)
{
    x = y;
    y = z * 2;
    z = x * 2;
}```