QuizID: 67813 NetID: zeruiw2 Score: 4/4 Answer Source: Manual Input from Quiz Sheet

```
{{{questionNumber}}}. What does the code on lines {{@line1}}-{{@line2}} accomplish?

int main() {
    int *a = new int[3];
    a[0] = 0;
    a[1] = 1;
    a[2] = 2;
    int *b = new int[3]; // from here ... {{#line1}}
    for(int i = 0; i < 3; i++) {
        b[i] = a[i];
    } // ... to here {{#line2}}
    // code to delete dynamic memory
    return 0;
}

A. It results in a segmentation fault.
B. It makes a copy of b called a .
C. It results in a compiler error
D. None of the other options are correct.
E. [Correct Answer] [Your Answer] It makes a copy of a called b.</pre>
```

```
{{{questionNumber}}}. Consider this simple code, and assume the puppy class has default and copy constructors defined:
   puppy * plantANew(puppy orig) {
        puppy * seedling = new puppy(orig);
        return seedling;
   }
   int main() {
        puppy f1; puppy * f2;
        f2 = plantANew(f1);
        return 0;
   }
}

How many times is the puppy copy constructor called in the example above?
   A. Never, but the code executes with no errors.
   B. One time.
   C. Three times.
   D. [Correct Answer] [Your Answer] Twice.
   E. Never, because this code has a compiler error.
```

```
{{{questionNumber}}}. Consider the following code:
    #include <iostream>
   using namespace std;
    void myfunc(int y) {
        y = y+1;
        cout << y << endl;
        y = y+1;
   int main() {
        myfunc(5); // first call
        int x = 6:
        myfunc(x); //second call
        myfunc(x+1); // third call
        return 1;
What is the result of compiling and running this code?
    A. The numbers 6, 8, and 11 are printed to the screen.
    B. This code has a compilation error.
    C. [Correct Answer] [Your Answer] The numbers 6, 7, and 8 are printed to the screen.
    D. Nothing is printed to the screen.
    E. The numbers 6, 7, and 9 are printed to the screen.
```

```
{{{questionNumber}}}. Examine the following program and determine the output.

#include <iostream>
using namespace std;
int foo (int &a, int &b)
{
    b = b + a;
    a++;
    return a;
}

int main()
{
    int x=5, y=2;
    int z = foo(x,y);
    cout < z <"\t" < y < "\t" < x;

    return 0;
}

Which of the following options below would be printed out by the program?

A. 5 2 5

B. None of the other answers are correct.

C. 6 2 6

D. 6 7 5

E. [Correct Answer] Your Answer] 6 7 6
```