

Quiz C

Name: _____

1) What does += do?

2) What does /= do?

3) What does this initializer do? `int scores[12];`

4) What does this initializer do? `int buckets[] = {0, 1, 2, 3, 4};`

5) and this do? `int arr[3][3] = { {0, 3, 6}, {1, 4, 7}, {2, 5, 8} };`

6) Given question 5) what would be printed by this?

```
cout << arr[1][1] << endl;
```

and this? `cout << arr[2][1] << endl;`

and this? `cout << arr[1][0] << endl;`

7) What does this initializer do? `int arr[3][3][3];`

8) Given this function `foo()`

```
int foo(int x = 4, int y = 4, int z = 4, int w = 4)
{
    return (x + y + z + w);
}
```

What will this `cout` print?

```
cout << foo(1, 2) << endl;
```

9) Given these three print() functions.

```
void print(int i) {  
    cout << "A: " << i << endl;  
}  
void print(float f) {  
    cout << "B: " << f << endl;  
}  
void print(char c) {  
    cout << "C: " << c << endl;  
}
```

What will print when this is called,

```
float fData = 8.88;  
print(fData);
```

10) Given this enum

```
enum Season {Fall, Winter, Spring, Summer};
```

What will print when this is called? Remember, enumerated values are integer constants in disguise. The first in the list is 0, the next 1, and so on.

```
Season season = Winter;  
cout << season << endl;
```

For 11), 12), and 13), when given this string

```
string str= "We are the world.";
```

11) What will print when this is called,

```
string str2 = str.substr(11, 5);  
cout << str2 << endl;
```

12) What will print when this is called,

```
long pos = str.find("are");  
cout << pos << endl;
```

13) Now, given pos from 12) what will print when this is called,

```
str = str.replace(pos, 3, "were");  
cout << str << endl;
```

14) What does this function do?

```
int foobar(int num1, int num2)
{
    int num3 = num2 - num1 + 1;
    return rand()%num3 + num1;
}
```

15) Correct the program below so that `main()` has access to, and can print, `RATE` without the compiler saying "Use of undeclared identifier 'RATE'"

```
#include <iostream>

using namespace std;

namespace globalType
{
    const int N = 10;
    const double RATE = 7.5;
    void printResult();
}

int main()
{
    cout << "RATE:" << RATE << endl;
    return 0;
}
```

16) Why is the use of a random seed such as `srand((uint)time(NULL))`; so important?

17) Where in your program would you typically use such a random seed?

18) What does this function do?

```
bool foo(int list1[], int list2[], int size)
{
    for (int i = 0; i < size; ++i)
    {
        if (list1[i] != list2[i])
        {
            return false;
        }
    }
    return true;
}
```

19) What does this function do?

```
int bar(int list[], int size, int value)
{
    for (int i = 0; i < size; ++i)
    {
        if (list[i] == value)
        {
            return i;
        }
    }
    return -1;
}
```

20) What does this function do?

```
void foobar(int& thing1, int& thing2)
{
    int bucket;
    bucket = thing1;
    thing1 = thing2;
    thing2 = bucket;
}
```