NetID: xinruiy2 QuizID: 10564 Score: 1 / 5 Answer Source: PrairieLearn

{{{questionNumber}}}. Consider this simple example.

```
class textBlock{
    public:
        textBlock(const string & s):text(s) {}
        char & operator()(int position)
            { return text[position]; }
    private:
        string text;
};
int main() {
    textBlock t("code monkey");
    for (int i = 0; i < 11; i ++)
        // Your answer goes here!

    return 0;
}
```

Which of the following statements complete the code above so that the output is `code monkey`?

A. `cout << t[i];`
B. `cout << text[i];`
C. [Correct Answer] `cout << t(i);`
D. [Your Answer] More than one of the other answers produces the correct output.
E. `cout << t;`

{{{questionNumber}}}. Consider this simple example.

```
int * a;
int * b;
a = new int(5);
b = a;
cout << *b << endl;
delete a;
a = NULL;
b = NULL;
```

What is the result of executing these statements if you assume the standard `iostream` library has been included?

A. This code does not compile.
B. [Correct Answer] [Your Answer] `5` is sent to standard out and no memory is leaked.
C. The memory address of `b` is sent to standard out.
D. This code has a memory leak.
E. None of the other options describes the behavior of this code.
F. This code results in undefined runtime behavior.

{{{questionNumber}}}. Which of the following is a correct way to declare the variable named `NCC1701` to be a dynamic array of `starShip` pointers?

A. [Correct Answer] `starShip ** NCC1701;`
B. [Your Answer] None of the other answers are correct declarations for `NCC1701`.
C. `starShip * NCC1701 = new starShip(NCC1701);`
D. `starShip * [size] NCC1701;`
E. `starShip * NCC1701 = new starShip *[size];`

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

class Bear {
    public:
        Bear() { cout << "Growl "; }
        ~Bear() { cout << "Stomp stomp stomp "; }
};

int main() {
    Bear beary;
    cout << "Run! ";
    return 0;
}
```

{{{questionNumber}}}. What is the result of compiling and executing this code?

A. This code does not compile.
B. [Your Answer] `Growl Run!`
C. [Correct Answer] `Growl Run! Stomp stomp stomp`
D. `Run!`
E. `Run! Stomp stomp stomp`

{{{questionNumber}}}. Consider this simple example.

```
int * p;
int i = 37;
*p = i;
cout << *p << endl;
```

What is the result of executing these statements if you assume the standard `iostream` library has been included?

A. This code does not compile.
B. [Your Answer] `37` is sent to standard out.
C. This code has a memory leak.
D. None of the other options describes the behavior of this code.
E. The memory address of `p` is sent to standard out.
F. [Correct Answer] This code results in undefined runtime behavior.