

{{questionNumber}}}. Which of the following concepts is mentioned in the Rule of the Big Three?

- A. header file
- B. Correct Answer Your Answer destructor
- C. encapsulation
- D. compilation
- E. default constructor
- F. None of these concepts is mentioned in the rule.

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

- A. starShip * NCC1701[size];
- B. None of the other answers are correct initializations for NCC1701.
- C. Correct Answer Your Answer NCC1701 = new starShip *[size];
- D. for (int i = 0; i < size; i++) NCC1701[i] = new starShip *;
- E. starShip * [size] NCC1701;
- F. NCC1701 = new starShip[size];

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

```
int * p;
int i;
i = 37;
*p = i;
*p = 99;
cout << i << endl;
```

What is the result of executing these statements, assuming that `iostream` is included?

- A. This code has a memory leak.
- B. Your Answer 37 is sent to standard out.
- C. Correct Answer This code results in undefined runtime behavior.
- D. This code does not compile.
- E. 99 is sent to standard out.
- F. None of the other options describes the behavior of this code.

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

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

```
int * a;
int * b;
b = new int(5);
a = b;
*a = 9;
cout << *b << endl;
delete b;
a = NULL;
b = NULL;
```

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

- A. The memory address of `b` is sent to standard out.
- B. This code results in undefined runtime behavior.
- C. Correct Answer Your Answer 9 is sent to standard out and no memory is leaked.
- D. None of the other options describes the behavior of this code.
- E. 5 is sent to standard out and no memory is leaked.
- F. This code has a memory leak.