QuizID: 33373 NetID: penggu2 Score: 1/4 Answer Source: PrairieLearn

E. [Your Answer] More than one of the other options are true.

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{{questionNumber}}}. Which of the following is true about dynamic arrays in C++?
A. They have a length member variable associated with them.
B. [Correct Answer] They are stored contiguously in memory.
C. Arrays can only be made on the stack.
D. Values are always automatically initialized to a default value when you create an array regardless of its type.
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{{{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. [Correct Answer] [Your Answer] Twice.

B. Three times.
C. One time.
D. Never, but the code executes with no errors.
E. Never, because this code has a compiler error.
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{{{questionNumber}}}. Consider the following code:
    #include <iostream>
   using namespace std;
    void myfunc(int y, int *x) {
        y = y+1;
        cout << y << endl;
        y = y+1;
        *x = y;
   int main() {
        int z = 6;
        int*x = &z;
        myfunc(z, x)
        myfunc(z+1, x);
        return 1:
What is the result of compiling and running this code?
    A. Nothing is printed to the screen.
    B. [Correct Answer] The numbers 7 and 10 are printed to the screen.
    C. [Your Answer] The numbers 7 and 11 are printed to the screen.
    D. This code has a compilation error.
    E. The numbers 7 and 8 are printed to the screen.
```

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{{{questionNumber}}}. Consider this simple function definition.

PNG & ugly(PNG x) {
    return x;
}

Which of the following statements is true?

A. [Correct Answer] This function is ugly for two of the other reasons.

B. This function is ugly because there is a type mismatch between the return value and the return type.

C. [Your Answer] This function is ugly because it returns a value parameter by reference.

D. This function is ugly because it parameter is not PNG const x.

E. This function is ugly because it could be slow.
```