

```
class puppy {
public:
    puppy() { cout << "yip "; }
    puppy(puppy const & orig) { cout << "bounce "; }
    ~puppy() { cout << "arf "; }
};

void walk(puppy const & p) {
    cout << "prance ";
}

int main() {
    puppy pete;
    walk(pete);
    return 0;
}
```

{{questionNumber}}. What is the result of compiling and executing this code, assuming that `iostream` is included?

- A. yip
- B. None of the other answers is the output.
- C. [Correct Answer] yip prance arf
- D. yip bounce prance
- E. prance
- F. [Your Answer] yip bounce prance arf

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

{{questionNumber}}. Which of the following is a correct function signature for the overloaded addition operator for the `sphere` class, if we want that operator to return a `sphere` whose radius is the sum of the radii of the object and its parameter?

- A. `sphere sphere::operator+(const sphere & left, const sphere & right);`
- B. `sphere & sphere::operator+();`
- C. More than one of the three function signatures, could be used.
- D. None of the other options is appropriate
- E. [Correct Answer] [Your Answer] `sphere sphere::operator+(const sphere & right) const;`

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

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

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