

FTID test

1. What ~~does~~ does the following do:
`cout << y++;`

2. What is wrong with:

```
int *p, y;
```

```
int a;
```

```
p = &a;
```

```
y = *(&a);
```

3. What is printed by:

```
x = 5; y = 4;
```

```
cout << ++(x + y);
```

4. Given:

```
class A  
{
```

```
    friend class B;
```

```
}
```

```
class B  
{
```

```
}
```

(a) methods of A can access all members of B

(b) --- B --- A

(c) . -

5. A 'protected' member can be accessed by:

(a) - -

(b) . -

-

6. A ~~friend~~ function that is a 'friend' of a class:

(a) has access to all members of the class

(b) - -

(c) the notion of 'friend' is not applicable to functions.

7. When is a virtual destructor needed?

8. Given the definition:

```
int (*p)[10] = new int [5][10];
```

how would you free the memory:

(a) delete p;

(e) delete [] *p;

(b) delete [] p;

(c) free(p);

(d) delete *p;

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Write a ~~#~~ short program, in your usual coding style, that takes two filenames as command line arguments, reads all lines (terminated by '\n') from the first file and writes them in reverse order to the second file. The files should not be the same, and you should take steps to check this.