CSE 202, Winter 2018: Quiz 7

For questions 1-3, refer to the following code:

```
class A {
public:
        int a, b;
protected:
        int c;
private:
        int d;
};

class B : A {
public:
        int e;
protected:
        int f, g;
private:
        int h;
};
```

1. (2 points) After inheritance, what public members will class B contain?

> **Solution:** e

2. (2 points) After inheritance, what protected members will class B contain?

> **Solution:** f, g

3. (2 points) After inheritance, what private members will class B contain?

> **Solution:** a, b, c, h

4. (4 points) Define the function body for `bool test_file(const string& filename)`. This function should return `true` if the file with name `filename` exists or `false` otherwise.

> **Solution:**
> ```
> fstream f(filename.c_str(), fstream::in);
> return f.is_open();
> ```