1. With respect to C++, what does "type extensibility" mean?

2. Given this class definition in **X.h**,

```
class X {
    public:
        X();
        void f();
}
```

   write a definition for the constructor <u>and</u> **f()** that might appear in **X.cc**, assuming that **X.h** has been **#included**. Use an empty body (**{ }**) for both.

3. Given the definition of **X** above and the declaration **X *xp;**, which one of the following is a correct call of **f()**?
   - (a) **xp->f()**
   - (b) **xp.f()**