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

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

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

   write a definition for the constructor and `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()`