## / Drill

Unfortunately, we can't construct a drill for the understanding of general design principles, so here we focus on the language features that support object-oriented

- Define a class B1 with a virtual function vf() and a non-virtual function f0.
   Define both of these functions within class B1. Implement each function to output its name (e.g., B1::vf()). Make the functions public. Make a B1
- Derive a class D1 from B1 and override vf(). Make a D1 object and call vf()
- 3. Define a reference to B1 (a B1&) and initialize that to the D1 object you just defined. Call vf() and f() for that reference.
- 4. Now define a function called f() for D1 and repeat 1-3. Explain the results.
- Add a pure varial function called pvf() to B1 and try to repeat 1-4. Explain the result.
- Define a class D7 derived from D1 and override pvf() in D2. Make an object of class D2 and invoke f(), vf(), and pvf() for it.
- 7. Define a class B2 with a pure virtual function pvf(). Define a class D21 with a string data member and a member function that overrides pvf(); D21::pvf() should output the value of the string. Define a class D22 that is just like D21 except that its data member is an int. Define a function f() that takes a B2& argument and calls pvf() for its argument. Call f() with a D21 and a D22.