Administrivia
Scalars vs. objects
Scalars: base mathematical types (plus pointers)
Objects: instantiations of classes
Big difference
Objects are initialized by their class's constructor.
Scalar initialization is undefined.
Constructors
Default Constructor
If you don’t provide any constructors, C++ provides a default one (which does nothing).
If you provide a non-default constructor, this does not happen.
Which means you must explicitly provide a default constructor if your class should have one!
In derived classes, a constructor of the base class must be called.
This is implicit if the base class has a default constructor.