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Chapter 14 Hw Problems

1. (14.1) What is the difference between an instance member variable and a static member variable?

Answer: Each class object (an instance of a class) has its own copy of the class’s instance member variables. If a class’s member variable is static, however, only one instance of the variable exists in memory. All objects of that class have access to that one variable

1. (14.2) Static member variables are declared inside the class declaration. Where are static member variables defined

Answer: Outside the class declaration

1. (14.3) Does a static member variable come into existence in memory before, at the same time as, or after any instances of its class?

Answer: Before

1. (14.4) What limitation does a static member function have?

Answer: Static member functions can only access member variables that are also static.

1. (14.5) What action is possible with a static member function that isn’t possible with an instance member function?

Answer: You can call a static member function before any instances of the class have been created