# Chapter 16 Homework

1. Describe the interface Comparator.
   1. The Comparator interface is used for sorting a Collection’s elements in a different order
2. What is the difference between a Set and a Map?
   1. A set is a collection that does not contain duplicates. A Map is a collection that uses Key Value pairs, it does not contain duplicate Keys.
3. Explain what the Iterator methods hasNext and next do.
   1. HasNext returns a True value if the object has another element. Next returns the next element.
4. A(n) \_\_\_\_ is used to iterate through a collection and can remove elements from the collection during iteration.
   1. Iterator next combined with iterator remove can remove elements from the collection.
5. True or false, elements in a Collection must be sorted in ascending order before a binarySearch may be performed.
   1. True