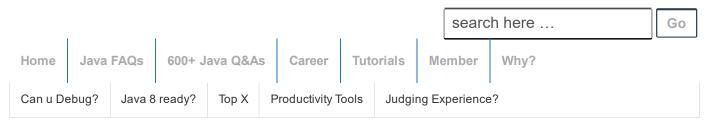
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Home > Interview > Core Java Interview Q&A > Collection and Data structures > 4

Java Collection Quizzes

4 Java Collection Quizzes

Posted on September 17, 2014 by Arulkumaran Kumaraswamipillai — No Comments L

Q1. When is an object needs to implement the Comparable interface?

- a) When adding it to a HashSet.
- b) When adding it to a TreeSet.
- c) When adding it to a LinkedHashSet.
- d) When adding it to any Java Collection class

A1 The answer is b.

- **1. HashSet** is implemented using a HashMap, hence the elements are not ordered.
- 2. TreeSet is implemented using a tree structure(red-black tree algorithm). The elements in a set are sorted. It offers several methods to deal with the ordered set like first(), last(), headSet(), tailSet(), etc. Any object you add to it must

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implement the Comparable interface, otherwise it throws a runtime exception

```
1 Exception in thread "main" java.lang.ClassCastExc
2 at java.util.TreeMap.compare(TreeMap.java:1188)
3 at java.util.TreeMap.put(TreeMap.java:531)
4 at java.util.TreeSet.add(TreeSet.java:255)
5
```

- **3. TreeSet** maintains the elements in the order in which the public int compareTo(String o) method is implemented. Any object that implements the Comparable interface must provide the public int compareTo(String o) method implementation.
- **4. LinkedHashSet** is between a HashSet and TreeSet. It is implemented as a HashMap with a linked list running through it. So, it maintains the elements in the order in which they are added.
- Q2. Given the following code, which of the statements are true?

```
1
2 List plainList = new ArrayList();
3 List<String> specList = new ArrayList<String> ();
4
```

- a) adding a non String object to specList will throw a compiletime error
- b) adding a non String object to specList will throw a runtime error
- c) adding a non String object to specList will be slower than adding it to a plainList
- d) adding a non String object to specList will throw a checked exception
- e) you can add any objects to a plainList

A2. Answer is a & e.

Java generics check happens at compile-time. Learn more at Java Interview Questions & Answers: Compile-time versus

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runtime. Generics is a bit tricky subject to master, and a must know topic to do well in coding and written tests.

Q3. Which of the following interfaces will you be concerned about when adding an object to a HashSet?

- a) Collection
- b) Set
- c) SortedSet
- d) List
- e) All the above

A3. Answer is a and b.

The Set interface extends the Collection interface, and HashSet implements the Set interface. Hence a and b are correct. You can write either

```
1 Collection<String> col = new HashSet<String>();
2 col.add("a");
3
```

or

```
1 Set<String> col = new HashSet<String>();
2 col.add("a");
3
```

Coding to an interface is a best practice.

c) is wrong because the SortedSet is implemented by ConcurrentSkipListSet and TreeSet. if you write

```
1 SortedSet<String> col = new HashSet<String>();
2 col.add("a");
3
```

you will get a compile time error "Type mismatch". If you write as

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```
1 SortedSet<String> col = (SortedSet)new HashSet<St
2 col.add("a");
3</pre>
```

you will get a Runtime exception

Exception in thread "main" java.lang.ClassCastException: java.util.HashSet cannot be cast to java.util.SortedSet at com.writtentest5.Def.main(Def.java:19)

Q4. What does the following code do? Can the LinkedHashSet be replaced with a HashSet?

A4. The above code **removes duplicates** from a supplied list by passing it through an implementation of a Set interface. In this case, a LinkedHashSet is used to honor the ordering by implementing a **SortedSet** interface. If ordering is not required, the **LinkedHashSet** can be replaced with a **HashSet**.

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