Certification SCJP/OCJP Mock Collections

Author: JavaChamp Team

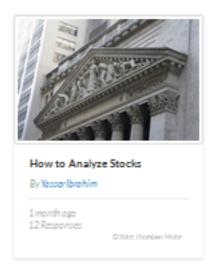
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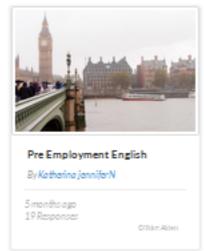
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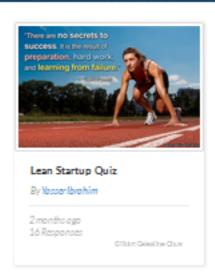
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1. Collections

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1. Collections Questions			
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4.1.1. What is the output of compiling and running the following program?

Author: JavaChamp Team

What is the output of compiling and running the following program?

```
import java.util.NavigableMap;
import java.util.TreeMap;

public class Tester {

public static void main(String[] args) {

   TreeMap tree = new TreeMap();
   tree.put("aa", 1);
   tree.put("cc", 2);
   tree.put("ee", 3);
   tree.put("gg", 4);

   NavigableMap nvMap = tree.headMap("ee", false);
   nvMap.put("nn", 5); // line 16
   System.out.println(nvMap);
}
```

Please choose only one answer:

- {aa=1, cc=2, ee=3}
- {aa=1, cc=2, ee=3, nn=5}
- Compilation error at line 16
- Exception is thrown at line 16

Check the answer of this question online at QuizOver.com:

Question: How to use java headMap?

Flashcards:

http://www.quizover.com/flashcards/how-to-use-java-headmap?pdf=3044

Interactive Question:

http://www.quizover.com/question/how-to-use-java-headmap?pdf=3044

4.1.2. What is the output of compiling and running the following program?

Author: JavaChamp Team

What is the output of compiling and running the following program?

```
import java.util.NavigableMap;
import java.util.TreeMap;

public class Tester{

public static void main(String[] args) {
    TreeMap tree = new TreeMap();
    tree.put("aa", 1);
    tree.put("cc", 2);
    tree.put("ee", 3);
    tree.put("ee", 3);
    tree.put("gg", 4);

NavigableMap nvMap = tree.headMap("ee", false);
    System.out.print(nvMap);
}
```

Please choose only one answer:

- {aa=1, cc=2}
- {aa=1, cc=2,ee=3}
- {aa=1, cc=2, ee=3, gg=4}
- No output is produced
- Compilation error

Check the answer of this question online at QuizOver.com:

Question: What does java headMap() do?

Flashcards:

http://www.quizover.com/flashcards/what-does-java-headmap-do?pdf=3044

Interactive Question:

http://www.guizover.com/guestion/what-does-java-headmap-do?pdf=3044

4.1.3. What is the result of compiling and running the following code?

Author: JavaChamp Team

What is the result of compiling and running the following code?

```
import java.util.Arrays;
import java.util.Set;
import java.util.TreeSet;

public class Tester extends Thread {

public static void main(String[] args) {
    Integer[] arr = {7,5,7,3};
    Set<Integer> set = new TreeSet<Integer>(Arrays.asList(arr));
    set.add(4);
    for(Integer value: set){
        System.out.print(value);
    }
}
```

Please choose only one answer:

- Compilation error
- 75734
- 3457
- 34577

Check the answer of this question online at QuizOver.com: Question: how to sort java Treeset?

Flashcards:

http://www.quizover.com/flashcards/how-to-sort-java-treeset?pdf=3044

Interactive Question:

http://www.quizover.com/question/how-to-sort-java-treeset?pdf=3044

4.1.4. What is the expected output after compiling and running the followi...

Author: Yasser Ibrahim

What is the expected output after compiling and running the following code?

```
import java.util.HashSet;
import java.util.Set;
public class Test{
public static void main(String[] args) {
 Set<Foo> myFooSet = new HashSet<Foo>();
 myFooSet.add(new Foo(2));
myFooSet.add(new Foo(1));
 myFooSet.add(new Foo(3));
 myFooSet.add(new Foo(3));
 myFooSet.add(new Foo(2));
 System.out.print(myFooSet.size());
class Foo {
Integer code;
Foo(Integer c) {
code = c;
public boolean equals(Foo f) {
return false;
public boolean equals(Object f) {
return true;
public int hashCode() {
return 17;
```

Please choose only one answer:

- 1
- 3
- 5
- compilation error

Check the answer of this question online at QuizOver.com: Question: how to override equals() in java?

Flashcards:

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nteractive Question:	
ttp://www.quizover.com/question/how-to-override-equals-in-java?pdf=3044	

4.1.5. What is the output of compiling and running the following code?

Author: Yasser Ibrahim

What is the output of compiling and running the following code?

```
public class Test{
  public static void main(String[] args) {
  Foo foo1 = new Foo(1);
  Foo foo2 = new Foo(2);

  System.out.print(foo1.equals(foo2));
  }
}
class Foo {
  Integer code;

  Foo(Integer c) {
    code = c;
  }

  public boolean equals(Foo f) {
    return false;
  }

  public boolean equals(Object f) {
    return true;
  }
}
```

Please choose only one answer:

- true
- false

Check the answer of this question online at QuizOver.com:

Question: overriding equals() method in java

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http://www.quizover.com/flashcards/overriding-equals-method-in-java?pdf=3044

Interactive Question:

http://www.quizover.com/question/overriding-equals-method-in-java?pdf=3044

4.1.6. The following code will throw a runtime exception, which line cause...

Author: Yasser Ibrahim

The following code will throw a runtime exception, which line causes the exception?

```
import java.util.HashSet;
import java.util.Set;
import java.util.TreeSet;

public class Test{
  public static void main(String[] args) {

    Set s = new HashSet();
    s.add("A"); // Line 1
    s.add(new Foo()); // Line 2

    Set t = new TreeSet();
    t.add("A"); // Line 3
    t.add(new Foo()); // Line 4
  }
}
class Foo {}
```

Please choose only one answer:

- Line 1
- Line 2
- Line 3
- Line 4

Check the answer of this question online at QuizOver.com:

Question: inserting into a TreeSet in java

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http://www.quizover.com/flashcards/inserting-into-a-treeset-in-java?pdf=3044

Interactive Question:

http://www.quizover.com/question/inserting-into-a-treeset-in-java?pdf=3044

4.1.7. What is the result of compiling and running the following code?

Author: Yasser Ibrahim

What is the result of compiling and running the following code?

```
import java.util.Arrays;

public class Tester{
public static void main(String[] args) {

   String[] arr = { "java", "champ", "champion" };
   Arrays.sort(arr);
   System.out.print(Arrays.binarySearch(arr, "champion"));
   System.out.print(Arrays.binarySearch(arr, "You"));
}
```

Please choose only one answer:

- 10
- 1-1
- un expected result
- 20
- 2-1
- compilation error

Check the answer of this question online at QuizOver.com:

Question: using binarySearch with an array in java

Flashcards:

http://www.quizover.com/flashcards/using-binarysearch-with-an-array-in-java?pdf=3044

Interactive Question:

http://www.quizover.com/question/using-binarysearch-with-an-array-in-java?pdf=3044

4.1.8. What is the result of compiling and running the following code?

Author: JavaChamp Team

What is the result of compiling and running the following code?

```
import java.util.Arrays;

public class Tester {
  public static void main(String[] args) {

   String[] arr = { "java", "champ", "you" };
   System.out.print(Arrays.binarySearch(arr, "java"));
   System.out.print(Arrays.binarySearch(arr, "You"));
}
```

Please choose only one answer:

- 02
- 0-1
- 13
- the result is unpredictable
- compilation error

Check the answer of this question online at QuizOver.com:

Question: searching an array using binarySearch in java

Flashcards:

http://www.quizover.com/flashcards/searching-an-array-using-binarysearch-in-java?pdf=3044

Interactive Question:

http://www.quizover.com/question/searching-an-array-using-binarysearch-in-java?pdf=3044

4.1.9. What is the result of compiling and running the following code?

Author: Yasser Ibrahim

What is the result of compiling and running the following code?

```
import java.util.Arrays;

public class Tester {
  public static void main(String[] args) {
    Integer[] arr = { 1, 2, 3 };
    System.out.print(Arrays.binarySearch(arr, 1)); // line 1
    System.out.print(Arrays.binarySearch(arr, "javachamp")); // line 2
  }
}
```

Please choose all the answers that apply:

- line 1 will print 0
- line 1 will print 1
- line 1 causes compilation error
- line 2 will print 0
- line 2 will causes compilation error
- line 2 will causes RunTimeException

Check the answer of this question online at QuizOver.com:

Question: binarySearch in java

Flashcards:

http://www.quizover.com/flashcards/binarysearch-in-java?pdf=3044

Interactive Question:

http://www.quizover.com/question/binarysearch-in-java?pdf=3044

Author: Yasser Ibrahim

What is the result of compiling and running the following code?

```
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
public class Test{
public static void main(String[] args) {
 List<Human> humans = new ArrayList<Human>();
 humans.add(new Human(13));
 humans.add(new Human(33));
humans.add(new Human(21));
 humans.add(new Human(21));
 Collections.sort(humans);
 System.out.print(humans.get(0).age);
 System.out.print(humans.size());
class Human implements Comparable<Human> {
int age;
public Human(int age) {
this.age = age;
public int compareTo(Human h) {
return h.age.compareTo(this.age);
```

Please choose only one answer:

- 333
- 334
- 133
- 134
- Compilation fails

Check the answer of this question online at QuizOver.com: Question: How to implement Comparable in java

Flashcards:

http://www.quizover.com/flashcards/how-to-implement-comparable-in-java?pdf=3044

Interactive Question:

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Author: JavaChamp Team

What is the result of compiling and running the following code?

```
import java.util.ArrayList;
import java.util.Collections;
import java.util.Comparator;
import java.util.List;
public class Tester{
public static void main(String[] args) {
 List<Human> humans = new ArrayList<Human>();
 humans.add(new Human(13));
 humans.add(new Human(33));
 humans.add(new Human(21));
 humans.add(new Human(21)); // line 1
 HumanComparator c = new HumanComparator(); // line 2
 Collections.sort(humans, c); // line 3
 System.out.print(humans.get(0).age);
 Collections.sort(humans); // line 4
 System.out.print(humans.get(0).age);
class Human implements Comparable<Human> {
Integer age;
public Human(int age) {
this.age = age;
public int compareTo(Human h) {
return h.age.compareTo(this.age);
class HumanComparator implements Comparator<Human> {
public int compare(Human h1, Human h2) {
return h1.age.compareTo(h2.age);
```

Please choose only one answer:

- line 1 causes a compilation error (no duplicates are allowed)
- line 2 causes a compilation error, the correct instantiation for HumanComparator is as so : new HumanComparator<Human>()
- line 4 causes a compilation error, must supply a Comparator to methos sort.

- The program compiles and runs fine printing 1333
- The program compiles and runs fine printing 3313

Check the answer of this question online at QuizOver.com:

Question: how to sort a collection in java?

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http://www.quizover.com/flashcards/how-to-sort-a-collection-in-java?pdf=3044

Interactive Question:

http://www.quizover.com/question/how-to-sort-a-collection-in-java?pdf=3044

Author: Yasser Ibrahim

What is the result of compiling and running the following code?

```
import java.util.HashSet;
import java.util.Set;
public class Test{
public static void main(String[] args) {
 Set<Human> humans = new HashSet<Human>();
 humans.add(new Human(13));
 humans.add(new Human(33));
 humans.add(new Human(21));
 humans.add(new Human(21));
 System.out.print(humans.size()+" ");
 System.out.print(humans);
class Human implements Comparable<Human> {
Integer age;
public Human(int age) {
this.age = age;
public int compareTo(Human h) {
return h.age.compareTo(this.age);
public String toString() {
return ""+this.age;
```

Please choose only one answer:

- 4 [33, 21, 13, 21]
- 3 [21, 33, 13]
- compilation error
- exception is thrown at run time

Check the answer of this question online at QuizOver.com:

Question: inserting into a HashSet in java

Flashcards:

http://www.quizover.com/flashcards/inserting-into-a-hashset-in-java?pdf=3044

Interactive Question:

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4.1.13. In this program, the set humans allows for objects of type Human wi...

Author: Yasser Ibrahim

In this program, the set humans allows for objects of type Human with the same age to be inserted. What can be done to make the set reject any Human object with value age equals to age value for an already inserted human object?

```
import java.util.HashSet;
import java.util.Set;

public class Test{

public static void main(String[] args) {

    Set<Human> humans = new HashSet<Human>();
    humans.add(new Human(13));
    humans.add(new Human(21));
    humans.add(new Human(21));
    humans.add(new Human(21));
}
}

class Human {
    Integer age;

public Human(int age) {
    this.age = age;
    }
}
```

Please choose only one answer:

```
    only override method equals() in Human as follows:
public boolean equals(Object h) {
return this.age==((Human)h).age;
}
```

only override method hashCode() in Human as follows:
 public int hashCode(){
 return 17;
 }

• must override both methods hashCode() and equals() as illustrated in the above answers

```
Check the answer of this question online at QuizOver.com:
Question: How the Set collection allows no duplicates in java?

Flashcards:
<a href="http://www.quizover.com/flashcards/how-the-set-collection-allows-no-duplicates-in-java?pdf=3044">http://www.quizover.com/flashcards/how-the-set-collection-allows-no-duplicates-in-java?pdf=3044</a>

Interactive Question:
```



4.1.14. What is the result of compiling and running the following code?

Author: JavaChamp Team

What is the result of compiling and running the following code?

```
import java.util.TreeMap;

public class Test {

public static void main(String[] args) {
    TreeMap<Integer,String> map = new TreeMap<Integer,String>();
    map.put(1, "one");
    map.put(2, "two");
    map.put(3, "three");
    map.put(4, "four");
    System.out.print(map.higherKey(2));
    System.out.print(map.ceilingKey(2));
    System.out.print(map.floorKey(1));
    System.out.print(map.lowerKey(1));
}
```

Please choose only one answer:

- 3211
- 321null
- 321-1
- 231null
- 2310

Check the answer of this question online at QuizOver.com:

Question: TreeMap methods in java

Flashcards:

http://www.quizover.com/flashcards/treemap-methods-in-java?pdf=3044

Interactive Question:

http://www.quizover.com/question/treemap-methods-in-java?pdf=3044

4.1.15. What does the method ceilingKey in TreeMap do?

Author: Yasser Ibrahim

What does the method ceilingKey in TreeMap do?

Please choose only one answer:

- Returns the least key greater than or equal to the given key, or null if there is no such key.
- Returns the least key strictly greater than the given key, or null if there is no such key.
- Returns the least key in the tree

Check the answer of this question online at QuizOver.com:

Question: ceilingKey in TreeMap in java

Flashcards:

http://www.quizover.com/flashcards/ceilingkey-in-treemap-in-java?pdf=3044

Interactive Question:

http://www.quizover.com/question/ceilingkey-in-treemap-in-java?pdf=3044

4.1.16. What is the result of compiling and running the following code?

Author: JavaChamp Team

What is the result of compiling and running the following code?

```
import java.util.SortedMap;
import java.util.TreeMap;

public class Test {

public static void main(String[] args) {
    TreeMap<Integer,String> map = new TreeMap<Integer,String>();
    map.put(1, "one");
    map.put(2, "two");
    map.put(3, "three");
    map.put(4, "four");
    SortedMap<Integer, String> smap1 = map.tailMap(2);
    SortedMap<Integer, String> smap2 = smap1.headMap(4);
    SortedMap<Integer, String> smap3 = smap2.subMap(2, 3);
    System.out.println(smap3);
    }
}
```

Please choose only one answer:

- {2=two, 3=three, 4=four}
- {2=two, 3=three}
- {2=two}
- no output is printed

Check the answer of this question online at QuizOver.com:

Question: tailMap, headMap and subMap in java

Flashcards:

http://www.quizover.com/flashcards/tailmap-headmap-and-submap-in-java?pdf=3044

Interactive Question:

http://www.quizover.com/question/tailmap-headmap-and-submap-in-java?pdf=3044

4.1.17. What is the result of compiling and running the following code?

Author: JavaChamp Team

What is the result of compiling and running the following code?

```
import java.util.SortedSet;
import java.util.TreeSet;

public class Test {
    public static void main(String[] args) {
        TreeSet<Integer> map = new TreeSet<Integer>();
        map.add(1);
        map.add(2);
        map.add(2);
        map.add(4);
        map.add(7);
        SortedSet<Integer> smap = map.subSet(2,7);
        map.add(5);
        map.add(9);
        System.out.println(smap);
    }
}
```

Please choose only one answer:

- [2, 4, 5, 7]
- [2, 4, 7]
- [2, 4, 5, 7, 9]
- [2, 4, 5]
- [2, 4]

Check the answer of this question online at QuizOver.com:

Question: subSet in java

Flashcards:

http://www.quizover.com/flashcards/subset-in-java?pdf=3044

Interactive Question:

http://www.quizover.com/question/subset-in-java?pdf=3044

4.1.18. What can be inserted, independently, at line // insert code here to...

Author: Yasser Ibrahim

What can be inserted, independently, at line // insert code here to cause the program to print out : [3, 4, 7, 0]

```
import java.util.*;
public class Test {
public static void main(String[] args) {
 Queue<Integer> queue = new LinkedList<Integer>();
 queue.add(1);
 queue.add(3);
 queue.add(4);
 queue.add(7);
// insert code here
 System.out.println(queue);
```

Please choose all the answers that apply:

- queue.poll();queue.offer(0);queue.peek();
- queue.peek();queue.add(0);queue.peek();queue.poll();
- queue.add(0);queue.remove();queue.peek();
- queue.add(0);queue.poll();queue.remove();

Check the answer of this question online at QuizOver.com: Question: PriorityQueue methods in java

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Interactive Question:

http://www.quizover.com/question/priorityqueue-methods-in-java?pdf=3044

4.1.19. What is the result of compiling and running the following code?

Author: Yasser Ibrahim

What is the result of compiling and running the following code?

```
import java.util.*;
public class Test {

public static void main(String[] args) {
    TreeSet s = new TreeSet();
    s.add(1);
    s.add(99.9);
    s.add(99.9);
    s.add(96.9);

for (int i = 0; i < s.size(); i++) {
    System.out.print(s.pollFirst()+" ");
    }
}</pre>
```

Please choose only one answer:

- 1 96.9 99.9
- 1 96.9 99.9 99.9
- 1
- compilation error
- an exception is thrown at run time

Check the answer of this question online at QuizOver.com:

Question: inserting into a non generic TreeSet in java

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http://www.quizover.com/question/inserting-into-a-non-generic-treeset-in-java?pdf=3044

4.1.20. Based on equals() and hashCode() contract in java, which of the fol...

Author: JavaChamp Team

Based on equals() and hashCode() contract in java, which of the following is true?

Please choose all the answers that apply:

- if o1.equals(o2) is true, then hashCode(o1)== hashCode(o2) must return true
- if o1.equals(o2) is true, then hashCode(o1)== hashCode(o2) might return true
- if o1.equals(o2) is false, then hashCode(o1)== hashCode(o2) must return false
- if o1.equals(o2) is false, then hashCode(o1)== hashCode(o2) might return true
- if hashCode(o1)== hashCode(o2) returns true then o1.equals(o2) must return true

Check the answer of this question online at QuizOver.com:

Question: equals and hashCode contract in java

Flashcards:

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http://www.quizover.com/question/equals-and-hashcode-contract-in-java?pdf=3044

4.1.21. What is the result of compiling and running the following code?

Author: JavaChamp Team

What is the result of compiling and running the following code?

```
import java.util.*;
public class Test {
  public static void main(String[] args) {
    String[] arr = { "Java", "Champ", "." };
    List<String> list = (List<String>) Arrays.asList(arr); // line 1
    arr[2] = ".com"; // line 2
    for (String word : list) {
        System.out.print(word);
    }
    }
}
```

Please choose only one answer:

- JavaChamp.
- JavaChamp.com
- · compilation error at line 1, the correct method is toList not asList
- compilation error at line 2, cannot modify array after converting to a List
- compilation error in other lines than lines 1 and 2

Check the answer of this question online at QuizOver.com:

Question: asList in java

Flashcards:

http://www.quizover.com/flashcards/aslist-in-java?pdf=3044

Interactive Question:

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