# Certification SCJP/OCJP Mock Generics

Author: JavaChamp Team

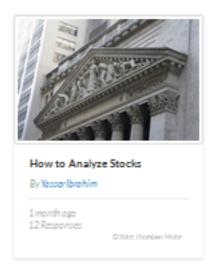
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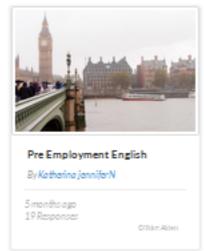
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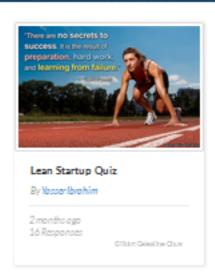
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# **Table of Contents**

Quiz Permalink:	http://www.aui	zover com/gu	action/java_dar	arice-car	tification-quest	ione
Quiz Permannik.	HLLD.//WWW.QUI.	zover.com/au	esuon/lava-uer	iencs-cer	uncauon-uuesi	10115

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1. Generics

4. Chapter: Generics			
1. Generics Questions			
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# 4.1.1. What is the result of compiling and running the following program?

# Author: Yasser Ibrahim

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

```
import java.util.ArrayList;
import java.util.List;

public class Tester {

public static void main(String[] args) {

    List<String> list1 = new ArrayList<String>();//line 1
    List<Object> list2 = list1;//line 2
    list2.add(new Integer(12));//line 3
    System.out.println(list2.size());//line 4

}
```

# Please choose only one answer:

- Compilation error at line 1, must initialize the size
- Compilation error at line 2, Type mismatch, cannot convert from List<String> to List<Object>
- · Compilation error at line 3, can add objects of type String only
- '

Check the answer of this question online at QuizOver.com: Question: How to declare instantiate java generic collection?

Flashcards:

http://www.quizover.com/flashcards/how-to-declare-instantiate-java-generic-collection?pdf=3044

Interactive Question:

http://www.quizover.com/question/how-to-declare-instantiate-java-generic-collection?pdf=3044

4.1.2. What is the result of compiling and running the following program u...

# Author: JavaChamp Team

What is the result of compiling and running the following program using JDK 1.5 or higher?

```
import java.util.ArrayList;
import java.util.List;
interface chewable {}

class Gum implements chewable {}

public class Tester {

public static void main(String[] args) {
    List<Gum> list1 = new ArrayList<Gum>();
    list1.add(new Gum());
    List list2 = list1;
    list2.add(new Integer(9));
    System.out.println(list2.size());
    }
}
```

# Please choose only one answer:

- Compilation error
- 2 will be printed but with warnings
- 2 will be printed without warnings
- An exception will be thrown at runtime

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

Question: How to add to java generic collection?

### Flashcards:

http://www.quizover.com/flashcards/how-to-add-to-java-generic-collection?pdf=3044

# Interactive Question:

http://www.quizover.com/question/how-to-add-to-java-generic-collection?pdf=3044

4.1.3. What is the result of compiling and running the following program u...

# Author: Yasser Ibrahim

What is the result of compiling and running the following program using jdk 1.5 or higher?

```
import java.util.ArrayList;
import java.util.List;
interface chewable {}

class Gum implements chewable {}

class Meat implements chewable {}

public class Tester {

public static void main(String[] args) {
    List list1 = new ArrayList<chewable>();// line 1
    list1.add(new Gum());// line 2
    list1.add(new Meat());// line 3
    list1.add(new Integer(9));// line 4
    System.out.println(list1.size());// line 5
}
```

Please choose only one answer:

- Compilation error at line 1
- Compilation error at line 4
- Runtime exception thrown at line 1
- Runtime exception thrown at line 4
- 3

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

Question: How to declare java generic collection?

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http://www.quizover.com/flashcards/how-to-declare-java-generic-collection?pdf=3044

Interactive Question:

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4.1.4. Which of the following is a correct declaration and instantiation o...

# Author: JavaChamp Team

Which of the following is a correct declaration and instantiation of list?

Please choose all the answers that apply:

- List<String> list = new ArrayList<String>();
- List<?> list = new ArrayList<String>();
- List<? extends Object> list = new ArrayList<String>();
- List<Object> list = new ArrayList<String>();
- List list = new ArrayList<String>();
- List list = new ArrayList<?>();

Check the answer of this question online at QuizOver.com: Question: java generic collection rules?

Flashcards:

http://www.quizover.com/flashcards/java-generic-collection-rules?pdf=3044

Interactive Question:

http://www.quizover.com/question/java-generic-collection-rules?pdf=3044

4.1.5. The following code contains a compilation error, at what line?

# Author: Yasser Ibrahim

The following code contains a compilation error, at what line?

```
import java.util.ArrayList;
import java.util.List;
interface Chewable {}
class Meat implements Chewable {}
public class Tester {
  public static void main(String[] args) {
    List<? extends Chewable> list1 = new ArrayList<Meat>(); // Line 11
    List<Chewable> list2 = new ArrayList<Chewable>(); // Line 13
    Meat meat = new Meat();
    list1.add(meat); // Line 17
    list2.add(meat); // Line 19
}
```

Please choose only one answer:

- Line 11
- Line 13
- Line 17
- Line 19

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

Question: When cannot add to a generic collection?

# Flashcards:

http://www.quizover.com/flashcards/when-cannot-add-to-a-generic-collection?pdf=3044

# Interactive Question:

http://www.quizover.com/question/when-cannot-add-to-a-generic-collection?pdf=3044

4.1.6. The following program contains two compilation errors, at what lines?

# Author: JavaChamp Team

The following program contains two compilation errors, at what lines?

```
import java.util.ArrayList;
import java.util.List;
interface Chewable {}
class Meat implements Chewable {}

public class Tester {

public static List<? extends Chewable> printSize(List<? extends Chewable> list) { // Line 10 System.out.println(list.size()); return list; }

public static void main(String[] args) {

List<? extends Chewable> list1 = new ArrayList<Meat>(); // Line 16 List<Chewable> list2 = new ArrayList<Chewable>(); // Line 17 List<Meat> list3 = new ArrayList<Meat>(); // Line 18

list1 = printSize(list1); // Line 20 list2 = printSize(list2); // Line 21 list3 = printSize(list3); // Line 22

}
}
```

Please choose all the answers that apply:

- Line 10
- Line 16
- Line 17
- Line 18
- Line 20
- Line 21
- Line 22

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

Question: Proper instantiation of java generic collection

# Flashcards:

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# Interactive Question:

http://www.quizover.com/question/proper-instantiation-of-java-generic-collection?pdf=3044

# 4.1.7. When were generics first introduced in Java?

# Author: JavaChamp Team

When were generics first introduced in Java?

Please choose only one answer:

- in JDK 1.4
- in JDK 1.5
- in JDK 1.6

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

Question: When were Generics first introduced in Java?

Flashcards:

http://www.quizover.com/flashcards/when-were-generics-first-introduced-in-java?pdf=3044

Interactive Question:

http://www.quizover.com/question/when-were-generics-first-introduced-in-java?pdf=3044

4.1.8. What is the expected output of compiling and running the following ...

# Author: Yasser Ibrahim

What is the expected output 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<Foo> myFooList = new ArrayList<Foo>();
        myFooList.add(new Foo("C"));
        myFooList.add(new Foo("A"));
        myFooList.add(new Foo("D"));

        Collections.sort(myFooList);
        System.out.print(myFooList.get(0).code);
    }
}

class Foo implements Comparable<Foo> {
    String code;
    Foo(String c) {
        code = C;
    }

int compareTo(Foo f) {
        return this.code.compareTo(f.code);
    }
}
```

Please choose only one answer:

- A
- C
- D
- · no output is printed
- compilation error
- exception thrown at run time

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

Question: how to sort a generic collection?

Flashcards:

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

Interactive Question:

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



4.1.9. What is the expected output of compiling and running the following ...

# Author: Yasser Ibrahim

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

```
import java.util.ArrayList;
import java.util.List;

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

    List list = new ArrayList();

    list.add("Hello");
    Foo f = new Foo();
    list.add(f);

    f = list.get(1);
    System.out.print(list.get(0) + "-" + f);
}

class Foo {
  public String toString() {
    return "Foo";
  }
}
```

Please choose only one answer:

- Hello-Foo
- compilation error
- exception at run time

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

Question: inserting into a non-generic collection in java

Flashcards:

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

Interactive Question:

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

4.1.10. Considering that all needed imports are there, what, inserted indep...

# Author: JavaChamp Team

Considering that all needed imports are there, what, inserted independently at line 1, will compile?

```
class A {}
class B extends A{}
class C extends B{}

public class Test {

public List<? extends B> ring(){

// line 1

}
}
```

Please choose all the answers that apply:

- return new ArrayList<B>();
- return new ArrayList<C>();
- return new ArrayList<A>();
- return new ArrayList<? extends B>();
- return new LinkedList<B>();
- return new PriorityQueue<B>();
- return new ArrayList();

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

Question: generic collection as return type in java

Flashcards:

http://www.quizover.com/flashcards/generic-collection-as-return-type-in-java?pdf=3044

Interactive Question:

http://www.quizover.com/question/generic-collection-as-return-type-in-java?pdf=3044

# Author: Yasser Ibrahim

Will the following code compile?

```
import java.util.*;
class B {
}
class C extends B {
}
public class Test {
    public static <E extends B> Queue<E> ring(List<E> list) {
        return null;
    }

    public static void main(String[] args) {
        List<C> list1 = new ArrayList<C>();
        ArrayList<C> list2 = new ArrayList<C>();
        Queue<C> q1;
        PriorityQueue<C> q2;
        q1 = ring(list1); // line1
        q1 = ring(list2); // line2
        q2 = ring(list1); // line3
        q2 = ring(list2); // line4
}
```

Please choose all the answers that apply:

- Yes, the program is free of compilation errors
- No, there is a compilation error at // Line 1
- No, there is a compilation error at // Line 2
- No, there is a compilation error at // Line 3
- No, there is a compilation error at // Line 4

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

Flashcards:

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

Interactive Question:

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

4.1.12. How can this program be modified to make use of appropriate generic...

### Author: Yasser Ibrahim

How can this program be modified to make use of appropriate generic types? (one modification for each line)

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

public static void main(String[] args) {
    List ids = new ArrayList(); // Line 1
    ids.add(123);
    ids.add(999);

Map students = new HashMap(); // Line 2
    students.put("Jess",ids.get(0));
    students.put("Jimmy",ids.get(1));
    int x = ((Long)students.get("Jimmy")).intValue(); // Line 3
}
```

Please choose all the answers that apply:

- replace line 1 with List<Integer> ids = new ArrayList<Integer>();
- replace line 1 with List<Long> ids = new ArrayList<Long>();
- replace line 2 with Map<Integer,String> students = new HashMap<Integer,String>();
- replace line 2 with Map<String,Integer> students = new HashMap<String,Integer>();
- replace line 3 with int x = students.get("Jimmy");

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

Question: how to declare a generic collection in java?

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Interactive Question:

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

4.1.13. Given the following incomplete program, based on the given put stat...

# Author: JavaChamp Team

Given the following incomplete program, based on the given put statements in map, what is considered a correct declaration and instantiation for map?

```
import java.util.*;
public class Test {
  public static void main(String[] args) {
    // insert code here
    map.put(new ArrayList<Integer>(), 1);
    map.put(new ArrayList<Integer>(), 12);
    map.put(new LinkedList<Integer>(), new Integer(1));
    map.put(new LinkedList<Integer>(), new Long(1));
}
```

# Please choose only one answer:

- 1) Map<List<Integer>,? extends Number> map = new HashMap<List<Integer>,Number>();
- 2) Map<List<Integer>,Number> map = new HashMap<List<Integer>,Integer>();
- 3) Map<List<Integer>, Number> map = new HashMap<List<Integer>, Number>();
- 4) Map<List<Integer>,Integer> map = new HashMap<List<Integer>,Integer>();
- 5) Map<ArrayList<Integer>,Integer> map = new HashMap<ArrayList<Integer>,Integer>();
- 6) Map<List<Integer>,Long> map = new HashMap<List<Integer>,Long>();

Check the answer of this question online at QuizOver.com: Question: how to declare a generic Map in java?

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