Certification Java Certified Programmer

SCJP/OCJP Mock

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4. Chapter: Strings

1. Strings Questions

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4.1.1. What is the expected output?

Author: Yasser Ibrahim

What is the expected output?

```
public static void main(String[] args) {

  boolean stmt1 = "champ" == "champ";
  boolean stmt2 = new String("champ") == "champ";
  boolean stmt3 = new String("champ") == new String("champ");
  System.out.println(stmt1 && stmt2 || stmt3);
}
```

Please choose only one answer:

- true
- false

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4.1.2. What is the expected output?

Author: JavaChamp Team

What is the expected output?

```
public static void main(String[] args) {

    boolean stmt1 = "champ" == "champ";
    boolean stmt2 = new String("champ").equals(new String("champ"));
    boolean stmt3 = "champ".toString()=="champ";

    System.out.println(stmt1 && stmt2 && stmt3);

}
```

Please choose only one answer:

- true
- false

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4.1.3. Select the common methods, which are defined for both type String a...

Author: JavaChamp Team

Select the common methods, which are defined for both type String and type StringBuffer ?

Please choose all the answers that apply:

- toString()
- length()
- append(String)
- trim()
- equals(Object)

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4.1.4. Which of the statements would evaluate to true?

Author: JavaChamp Team

Which of the statements would evaluate to true?

```
public class Tester {
 public static void main(String[] args) {
  StringBuffer sb = new StringBuffer("javachamp");
  String s = new String("javachamp");
  boolean stmt1 = s.equals(sb) ;
  boolean stmt2 = sb.equals(s) ;
  boolean stmt3 = sb.toString() == s ;
  boolean stmt4 = sb.toString().equals(s) ;
  boolean stmt5 = s.equals(sb.toString()) ;
 }
}
```

Please choose all the answers that apply:

- stmt1
- stmt2
- stmt3
- stmt4
- stmt5

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4.1.5. Which of the statements will evaluate to true?

Author: JavaChamp Team

Which of the statements will evaluate to true?

```
public class Tester {

 public static void main(String[] args) {

  StringBuffer sb1 = new StringBuffer("javachamp");
  StringBuffer sb2 = new StringBuffer("javachamp");

  boolean stmt1 =sb1.equals(sb2) ;
  boolean stmt2 = sb1 == sb2;

  String s1 = new String("javachamp");
  String s2 = new String("javachamp");

  boolean stmt3 = s1.equals(s2);
  boolean stmt4 = s1 == s2;

 }
}
```

Please choose only one answer:

- stmt1
- stmt2
- stmt3
- stmt4

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4.1.6. What is the expected output?

Author: Yasser Ibrahim

What is the expected output?

```
public static void main(String args []) {
  String stmt = null;
                System.out.print(null+stmt);
                System.out.print(stmt+null);
}
```

Please choose only one answer:

- RuntimeException is thrown because of the first print statement
- RuntimeException is thrown because of the second print statement
- nullnullnullnull
- nullnull
- compilation error

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4.1.7. 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?

```
public static void main(String[] args) {
  StringBuffer buffer1 = new StringBuffer("javachamp");
  StringBuffer buffer2 = new StringBuffer(buffer1);
  if (buffer1.equals(buffer2))
   System.out.println("true");
  else
   System.out.println("false");
 }
```

Please choose only one answer:

- true
- false

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4.1.8. 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?

```
public static void main(String[] args) {

  String s1 = null;
  String s2 = null;

  if (s1 == s2)
   System.out.print("A");

  if (s1.equals(s2))
   System.out.print("B");

 }
```

Please choose only one answer:

- "AB" will be printed
- "A" will be printed followed be a NullPointerException thrown
- "B" will be printed
- No output is produced

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4.1.9. Which of the following methods can be invoked by an object of Patte...

Author: Yasser Ibrahim

Which of the following methods can be invoked by an object of Pattern class?

Please choose all the answers that apply:

- compile
- matches
- group
- toString

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4.1.10. 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?

```
public class Tester {

public static void main(String[] args) {

  String a = "javachamp";
  String b = "javachamp";
  String c = new String("javachamp");

  System.out.print(a==b);
  System.out.print(a==c);
  System.out.print(b.equals(c));
  System.out.print(b.equals(a));

 }
}
```

Please choose only one answer:

- Compilation error
- falsefalsetruetrue
- truetruetruetrue
- truefalsetruetrue

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4.1.11. 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?

```
public class Tester {

 public static void main(String[] args) {
  String stmt = "JavaChamp is here to help you";
  for (String token : stmt.split("//s")) {
   System.out.print(token + " ");
  }
 }
}
```

Please choose only one answer:

- JavaChamp is here to help you
- JavaChamp i here to help you
- No output is produced
- Compilation error

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4.1.12. Given the following code, what is the expected output?

Author: JavaChamp Team

Given the following code, what is the expected output?

```
import java.util.regex.Matcher;
import java.util.regex.Pattern;

public class Tester {

 public static void main(String[] args) {
     Pattern p = Pattern.compile("[a-f]\\d+");
     Matcher m = p.matcher("ab34ef0");
     while(m.find()) {
  System.out.print(m.start()+" "+m.group());
     }
 }
}
```

Please choose only one answer:

- 0 ab345 f0
- 0 ab344 ef0
- 1 b35 f0
- 1 b345 f0

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4.1.13. 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?

```
public class Tester {

 public static void main(String[] args) {
  String s = "";
  Integer x = 5;
  StringBuffer sb = new StringBuffer();
  if (x < 15)
   s.concat("javachamp");
  else
   sb.append("javachamp");
      System.out.print(s + sb);
 }

}
```

Please choose only one answer:

- javachamp
- javachamp javachamp
- No output is produced
- Compilation error

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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?

```
public class Tester {

 public static void main(String[] args) {
  String s = "";
  Integer x = 5;
  StringBuffer sb = "";
  if (x < 0)
   s.concat("javachamp");
  else
   sb.append("javachamp");
      System.out.print(s + sb);
 }

}
```

Please choose only one answer:

- javachamp
- javachamp javachamp
- No output is produced
- Compilation error

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4.1.15. 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.Scanner;

public class Tester {

 public static void main(String[] args) {
  Scanner sc = new Scanner("javachamp 2009, true 239");
  while (sc.hasNext()) {

   if (sc.hasNextBoolean())
    System.out.print("Boolean");
   if (sc.hasNextInt())
    System.out.print("Int");
   sc.next();
  }
 }
}
```

Please choose only one answer:

- IntBooleanInt
- BooleanInt
- IntInt
- Compilation error

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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?

```
public class Tester {

 public static void main(String[] args) {
  String str = "java";
  StringBuffer sb = new StringBuffer("javachamp");
  sb.insert(9, ".com");
  str.concat("champ");
  if (sb.length() < 6 || str.equals("javachamp")) {
   System.out.print(sb);
  }
  sb.delete(2, 7);
  System.out.print(sb);
 }
}
```

Please choose only one answer:

- javachamp.comjamp.com
- jamp
- jamp.com
- javachampjamp
- jap

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4.1.17. What is the correct answer?

Author: MrDick

What is the correct answer?

```
public class Test {
 public void method(StringBuffer sb) {
  System.out.println("StringBuffer method");
 }
 public void method(String s) {
  System.out.println("String method");
 }

 public static void main(String[] args) {
  Test test = new Test();
  test.method(null);
 }
}
```

Please choose only one answer:

- Stringbuffer method
- String method
- null
- compilation error
- Runtime Exception

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4.1.18. What is the correct output?

Author: MrDick

What is the correct output?

```
class Test {


 public static void main(String[] args) {
    String jc = "javachamp_champ2012champ";
          Pattern p = Pattern.compile(".{4}c+(m)*"); //line 1
    Matcher m = p.matcher(jc);
    while(m.find()) {
  System.out.print(m.start());
    }
 }
}
```

Please choose only one answer:

- javacamp_c2012c
- javachamp_champ2012champ
- compliation error in line1
- 0615
- Runtime exception due line 1

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4.1.19. What will be the Output?

Author: Sudhakar Nagarajan

What will be the Output?

```
public class InnerClassThis {
 int x=10;
 public void foo() {
        System.out.println("Outer class");
 }
 public class ReallyInner {
     public void foo() {
        System.out.println("Inner class");
     }
     public void test() {
        this.foo();
        InnerClassThis.this.foo();
     }
 }
 public static void main(String... args) {
        InnerClassThis.ReallyInner i = new InnerClassThis().new ReallyInner();
        i.test();
 }
}
```

Please choose only one answer:

- The code does not compile.
- Inner class
  Outer class
- The code compiles but throws runtime exception
- Outer class
  Inner class

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 int x=10;
 public void
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4.1.20. Choose the correct(s) :

Author: Diogo Dantas

Choose the correct(s) :

```
abstract interface Veloz { void metodo(String x); }

public class A {

    private abstract interface Veloz{ Number metodo(int x); }  // 0

    abstract static class B{  // 1

  private abstract static interface Veloz{
   void metodo(long x) throws Exception;
  }

  public void metodo(){

   class Opa implements Veloz{

    public void metodo(long x) throws IOException { }   // 2
   }
  }
 }

    public void test(){

  class Opa2 implements Veloz{

   public Integer metodo(int x) throws RuntimeException { // 3
    return (Integer)(int) .5f;  //4
   }
  }
 }
}
```

Please choose all the answers that apply:

- Can not be used private abstract at // 0

  Can not be used abstract static at // 1
- OK. Compiles Fine !
- The IOException can be changed to InterruptedException
- Error at // 3
- Error at // 4

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abstract interface Veloz
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4.1.21. What will be the output upon running this piece of code?

Author: Divya Nagaraj

What will be the output upon running this piece of code?

```
public class Test {

 public static void hello(Collection x) {
  System.out.println("Collection");
 }

 public static void main(String[] args) {
  Test t = new Testing();
  List x = null;
  t.hello(x);
 }
}

class Testing extends Test {
 public static void hello(List x) {
  System.out.println("List");
 }
}
```

Please choose only one answer:

- Collection
- List
- compilation error

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public static void hello(Collection x){
System.out.print
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4. Chapter: Constructors

1. Constructors Questions

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4.1.1. Can a constructor be declared static?

Author: Yasser Ibrahim

Can a constructor be declared static?

Please choose only one answer:

- Yes
- No

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4.1.2. What are the legal modifiers which the constructor can be declared ...

Author: JavaChamp Team

What are the legal modifiers which the constructor can be declared with?

Please choose all the answers that apply:

- public
- protected
- private
- final
- static
- abstract

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4.1.3. What is the expected output?

Author: JavaChamp Team

What is the expected output?

```
public class Profile {

 private Profile(int w) { // line 1
  System.out.println(w);
 }

 public final Profile() { // line 5
  System.out.println(10);
 }

 public static void main(String args[]) {
  Profile obj = new Profile(50);

 }
}
```

Please choose only one answer:

- Won't compile because of line (1) – constructor can't be private
- Won't compile because of line (5) – constructor can't be final
- 50
- 10
  50

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4.1.4. What is the expected output?

Author: JavaChamp Team

What is the expected output?

```
public class Profile {

    private Profile(int w) { // line 1
  System.out.println(w);
 }

 public static Profile() { // line 5
  System.out.println(10);
 }

 public static void main(String args[]) {
  Profile obj = new Profile(50);

}

}
```

Please choose only one answer:

- Won't compile because of line (1) – constructor can't be private
- 10
  50
- 50
- Won't compile because of line (5) – constructor can't be static

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4.1.5. What is the expected output?

Author: Yasser Ibrahim

What is the expected output?

```
class Plant {
 Plant() {
  System.out.println("Plant created");
 }
}

class Tree extends Plant {
 Tree() {
  System.out.println("Tree created");
        super();
 }
}

public class Test {
 public static void main(String args[]) {
  Tree tree = new Tree();

 }
}
```

Please choose only one answer:

- Plant created
  Tree created
- Tree created
  Plant created
- RuntimeException
- Compilation error

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4.1.6. What is the expected output?

Author: JavaChamp Team

What is the expected output?

```
import java.io.IOException;

class AirPlane {
 public AirPlane() throws IOException {
  System.out.print("AirPlane");
  throw new IOException();
 }
}

class AirJet extends AirPlane {
 public AirJet() throws IOException {
   try {
  super();
    } catch (IOException e) {
  System.out.print("IOException is thrown in AirJet");
  }
 }
}

public class Tester {
 public static void main(String args[]) {
  try {
      new AirJet();
  } catch (IOException e) {
   System.out.print("IOException is thrown in Tester");
  }
 }
}
```

Please choose only one answer:

- "AirPlaneIOException is thrown in AirJet" will be printed
- "AirPlaneIOException is thrown in AirJetIOException is thrown in Tester" will be printed
- "AirPlaneIOException is thrown in Tester" will be printed
- Compile error

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4.1.7. The following code contains one compilation error, where could it be?

Author: Yasser Ibrahim

The following code contains one compilation error, where could it be?

```
public class Tester {

 Tester() {    }  // line 1
        static void Tester() {  this(); } // line 2

 public static void main(String[] args) { // line 3
   Tester(); // line 4
       }
}
```

Please choose only one answer:

- At line 1, constructor Tester must be marked public like its class
- At line 2, constructor call "this()" can only be called inside constructors
- At line 3, compilation error, ambiguity problem, compiler can"t determine wether a constructor Tester or method Tester is called

Check the answer of this question online on QuizOver.com:
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4. Chapter: Inner class

1. Inner class Questions

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4.1.1. What is the expected output?

Author: JavaChamp Team

What is the expected output?

```
public class OuterTest {

 public static void main(String args[]) {

  Airplane airplane = new Airplane(); //line 5
  Airplane.BlackBox box = airplane.new BlackBox(); // line 6
  box.printVariables();

 }
}

 class Airplane {
 String code = "11";

 class BlackBox {
  String code = "22";

  public void printVariables() {
   System.out.print(code); // line 19
          System.out.print(Airplane.this.code); // line 20

  }
 }

}
```

Please choose only one answer:

- Compile error because of lines 5-6 (incorrect instantiation)
- Compile error because of line 20 (can't access Airplane's variables)
- 2222
- 1111
- 2211

Check the answer of this question online on QuizOver.com:
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4.1.2. What is the expected output?

Author: JavaChamp Team

What is the expected output?

```
public class OuterTest {

      public static void main(String args[]) {
  Airplane.BlackBox box = new Airplane().new BlackBox(); // line 1
          box.printVariables();

 }
}

class Airplane {
 String code = "11";

 class BlackBox {
  String code = "22";

  public void printVariables() {
                        System.out.print(code);
               System.out.print(Airplane.this.code); // line 20

  }
 }

}
```

Please choose only one answer:

- Compile error because of line 1 (incorrect instantiation)
- Compile error because of line 20 (can't access Airplane's variables)
- 2222
- 1111
- 2211

Check the answer of this question online on QuizOver.com:
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4.1.3. Which of the instantiations for a BlackBox are correct and compile-...

Author: JavaChamp Team

Which of the instantiations for a BlackBox are correct and compile-free?

```
public class OuterTest {

 public static void main(String args[]) {

  // instantiation 1
  Airplane airplane = new Airplane();
  Airplane.BlackBox box1 = airplane.new BlackBox();

  // instantiation 2
  Airplane.BlackBox box2 = new Airplane().new BlackBox();

  // instantiation 3
  Airplane airplane3 = new Airplane();
  BlackBox box3 = airplane3.new BlackBox();

 }
}

class Airplane {

 class BlackBox {

 }
}
```

Please choose all the answers that apply:

- Instantiation 1
- Instantiation 2
- Instantiation 3

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4.1.4. Which of the instantiations for a Engine are correct and compile-free?

Author: JavaChamp Team

Which of the instantiations for a Engine are correct and compile-free?

```
public class AirJet {

 public static void main(String[] args) {

  // instantiation 1
  Engine engine1 = new AirJet().new Engine();

  // instantiation 2
  AirJet.Engine engine2 = new AirJet().new Engine();

  // instantiation 3
  AirJet airjet = new AirJet();
  Engine engine3 = airjet.new Engine();

  // instantiation 4
  Engine engine4 = new Engine();

 }

 class Engine{

 }
}
```

Please choose all the answers that apply:

- Instantiation 1
- Instantiation 2
- Instantiation 3
- Instantiation 4

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4.1.5. Are the lines 1 and 2 correct and free of compilation errors?

Author: Yasser Ibrahim

Are the lines 1 and 2 correct and free of compilation errors?

```
public class AirPlane {

  public void fly(int speed) {

    final int e = 1;
 class FlyingEquation {
    {
  System.out.println(e);// line 1
  System.out.println(speed);// line 2
    }
 }
  }
}
```

Please choose only one answer:

- Both statements at lines 1 and 2 are correct
- Both statements at lines 1 and 2 are incorrect and cause compilation errors
- Compilation error at line 1 , inner class can't access outer class local variables
- Compilation error at line 2, inner class can't access method's arguments

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4.1.6. What statement,inserted independently at // insert statement here, ...

Author: JavaChamp Team

What statement,inserted independently at // insert statement here, would produce output "Body" ?

```
public class Body {

 String name = "Body";

 public static void main(String[] args) {
  System.out.println(new Body().new Heart().getPName());
 }

 class Heart {
  String name = "Heart";

  String getPName() {
  // insert statement here
  }

 }

}
```

Please choose only one answer:

- return Body.name;
- return Body.this.name;
- return super.name;
- return this.super.name;

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4.1.7. whether program will compile?

Author: Aroraila975

whether program will compile?

```
public class outer
{
public static void main(String[] a)
{
static class inner{

}
}
}
```

Please choose only one answer:

- No, because local class can not be explicitly declared static.
- Yes its correct

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4.1.8. What is the right output?

Author: MrDick

What is the right output?

```
class  Outer   {

    private int i = 5; // line 1

    Outer(int i ){  // line 2
        this.i = i;  // line 3
    System.out.print(++i); // line 4
}

    class Inner{
            Inner(){
                System.out.print(","+ i++); // line 5
    }
}
 public static void main(String[] args) {

            int i = 6;
            Outer.Inner in = new Outer(i).new Inner(); // line 6

       }
}
```

Please choose only one answer:

- 6,6
- 5,6
- 7,6
- 7,7
- Complilation error in line 6
- Compilation error in line 5 inner class can't acces to private variables

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4.1.9. What will be the result of above code ?

Author: Kausik

What will be the result of above code ?

```
public class Test {

    public static void main(String[] args) {
        new OuterClass(); // line 3
    }
}

class OuterClass {

    private int x = 9; // line 5

    public OuterClass() {
        InnerClass inner = new InnerClass(); // line 7
        inner.innerMethod();
    }

    class InnerClass {

        public void innerMethod() {
            System.out.println(x);
        }
    }
}
```

Please choose only one answer:

- (1) Prints 9
- (2) Error during compilation at line 3
- (3) Error during compilation at line 5
- (4) Error during compilation at line 7

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4. Chapter: Flow Control

1. Flow Control Questions

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4.1.1. What is the expected output?

Author: JavaChamp Team

What is the expected output?

```
public class LoopTest {
 public static void goLoop(int a) {

  start: for (int i = 1; i < 2; i++) {
   for (int j = 1; j < 2; j++) {
     if (a < 5) {
              break;
    }
     System.out.print(i + j);

   }
   if (a > 5) {
    break start;
   }

  }

 }

 public static void main(String args[]) {
  LoopTest.goLoop(15);

 }
}
```

Please choose only one answer:

- 2
- No output is produced
- Compile Error
- Runtime exception is thrown
- 24

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4.1.2. What is the expected output?

Author: JavaChamp Team

What is the expected output?

```
public class LoopTest {
 public static void goLoop(int a) {

  start: for (int i = 1; i < 2; i++) {
   for (int j = 1; j < 2; j++) {
    if (a > 5) {
     break start;
    }
    System.out.print(i + j);

   }
  }

 }

 public static void main(String args[]) {
  LoopTest.goLoop(15);

 }
}
```

Please choose only one answer:

- 2
- No output is produced
- Compile Error
- Runtime exception is thrown
- 24

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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?

```
public class LoopTest {
 public static void goLoop(int a) {

  start; for (int i = 1; i < 2; i++) {
   for (int j = 1; j < 2; j++) {
    if (a > 5) {
     break start;
    }
    System.out.print(i + j);

   }
  }

 }

 public static void main(String args[]) {
  LoopTest.goLoop(15);

 }
}
```

Please choose only one answer:

- 2
- No output is produced
- Compile Error
- Runtime exception is thrown
- 24

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4.1.4. 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?

```
public class LoopTest {
 public static void goLoop(int a) {

  outside: for (int i = 0; i < 3; i++) {
   inside: for (int j = 1; j < 3; j++) {
    System.out.print(j);
    if (a > 5) {
     continue outside;
    }

   }
  }

 }

 public static void main(String args[]) {
  LoopTest.goLoop(15);

 }
}
```

Please choose only one answer:

- 121212
- No output is produced
- Compile Error
- Runtime exception is thrown
- 111

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4.1.5. 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?

```
public class LoopTest {
 public static void main(String args[]) {
  int a = 15;
  outside: for (int i = 0; i < 3; i++) {// line 4
   inside: System.out.print(i); // line 5
   for (int j = 1; j < 3; j++) {
    if (a > 5)
       continue inside;//line 8
    break outside; // line 9
   }
  }
 }
}
```

Please choose only one answer:

- Compile Error at line 5
- Runtime exception is thrown at line 5
- Compile Error at line 8
- Runtime exception is thrown at line 8
- No output is produced
- Compile Error at line 4
- Compile Error at line 9
- Runtime exception is thrown at line 9

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4.1.6. 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?

```
public class LoopTest {
 public static void main(String args[]) {
  int a = 5;
  outside: for (int i = 1; i < 3; i++) {
   inside: for (int j = 1; j < 3; j++) {
    System.out.print(j);
    if (a++ > 6)
     continue inside;
          break outside;
   }
  }
 }
}
```

Please choose only one answer:

- Compile error
- Runtime exception is thrown
- 1
- 123

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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?

```
public static void main(String[] args) {
  int j = 10;
  switch (1) {
  case 20:
   j += 1;
  case 40:
   j += 2;
  default:
   j += 3;
  case 0:
   j += 4;
  }
  System.out.print(j);
 }
```

Please choose only one answer:

- Compile error, can"t use constant 1 in the switch, must be final variable
- Compile error, default must be the last statement after all the cases
- Compile error, must have break statement within each case
- 17
- 13

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4.1.8. 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?

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

  do {
   System.out.print("inside do");
  } while (false);

  while (false) {
   System.out.print("inside while");
  }
  System.out.print("outside");
 }
}
```

Please choose only one answer:

- inside dooutside
- outside
- compilation error because of the second loop (while statement)

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4.1.9. Which of the following is correct after running this code ?

Author: Yasser Ibrahim

Which of the following is correct after running this code ?

```
public class Tester {

 public static void main(String[] args) {
  char code = 'a';
  for (int i = 1; i <= 10; i++) {
   switch (i) {

   case 5: {
    System.out.println("match");
   }

   default: {
    System.out.println("default");
   }
   }
  }
 }
}
```

Please choose all the answers that apply:

- match will be printed 0 time
- match will be printed one time
- default will be printed 10 times
- default will be printed 11 times

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4.1.10. What is the result of running the following program (which was comp...

Author: JavaChamp Team

What is the result of running the following program (which was compiled fine) given the command line:

java Tester one two

```
public class Tester {

 public static void main(String[] args) {
  if (args.length > 0)
   for (String str : args)
    System.out.print(str);
    System.out.print("--");
 }
}
```

Please choose only one answer:

- one--two--
- onetwo
- onetwo--
- Tester--one--two--
- Testeronetwo--

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4.1.11. Given the following code, which of if-statements declared is correc...

Author: JavaChamp Team

Given the following code, which of if-statements declared is correctly written and causes no compilation error?

```
public class Tester {

 public static void main(String[] args) {
  int x = 9;

  // stmt 1
  if (x>0){}


  // stmt 2
  if (x=9){} else {}


  // stmt 3
  if (true){
  } else if (x<0){
  }


  // stmt 4
  if (true){
  } else (x<0){
  } else {
  }

  // stmt 5
  if(true){
   if (false){
    }
   else {
   }
  } else {
   if (true){
   }
  }


 }
}
```

Please choose all the answers that apply:

- stmt 1
- stmt 2
- stmt 3
- stmt 4
- stmt 5

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4.1.12. 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?

```
public static void main(String[] args) {
 boolean flag = false;
 int x = 0;
 do {
  x++;
 } while (flag=!flag);
 System.out.println(x);
}
```

Please choose only one answer:

- 0
- 1
- 2
- 3
- Compilation error

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4.1.13. What is the output of this code?

Author: Abhishek Sawant

What is the output of this code?

```
public class SwitchTest{
 enum Color {RED,GREEN,BLUE};
 public static void main(String []args){
  Color clr = Color.GREEN;
  long x = 2;

  switch(x){  // #1
   case 1:
     System.out.println("1");
     break;

   case 2:
     System.out.println("2");


   case 3:
     System.out.println("3");
     break;

   default:
     System.out.println("default");
     break;
  }

  switch(clr){  // #2
   case RED:
     System.out.println("Red");
     break;

   case GREEN:
     System.out.println("Green");
     break;

   case BLUE:
     System.out.println("Blue");
     break;
  }
 }
}
```

Please choose only one answer:

- a) 2 Green
- b) 2 3 Green
- c) 2 3
- d) Compilation error at #1
- e) Compilation error at #2
- f) Runtime exception at #2

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4.1.14. what will be the output of compiling and running this code:

Author: Pankaj Gupta

what will be the output of compiling and running this code:

```
class TestByte{
public static void main(String arg[])
{
final Integer a=10;
int b=2;
switch(b)
{
case 1: System.out.println("1");
break;
case 2: System.out.println("2");
break;
case a: System.out.println("3");
break;
}
}
}
```

Please choose only one answer:

- compiler error
- prints 2
- Runtime exception is generated.
- prints 3

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4.1.15. Knowing that character 'a' has a numeric value equal to 97, what is...

Author: Pedro Kowalski

Knowing that character 'a' has a numeric value equal to 97, what is the output of the following code

```
public class CaseTest {
 public static void main(String... s) {
  char c = 'a';

  switch (c) {
  case 'a': {
   System.out.println("a");
   break;
  }

  case 97: {
   System.out.println("(int)a");
   break;
  }
  }
 }
}
```

Please choose only one answer:

- a
- (int)a
- a (int)a
- compilation fails

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

Author: Nikhil Kumar

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

```
class ExamDemo3{
 static{new ExamDemo3();}
 {System.out.println("Init Block");}
 ExamDemo3(){
  System.out.println("Constructor Runs");
 }
 static{System.out.println("static init 2");}
 public static void main(String... args){
  System.out.println("Inside main method");
 }
}
```

Please choose only one answer:

- Compile Time Error
- ExceptionIntializerError is thrown
- Init Block
  Constructor Runs
  static init 2
  Inside main method

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4. Chapter: Declarations and Access Control

1. Declarations and Access Control Questions

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4.1.1. 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?

```
public class Tester {

 static int x = 4;

 public Tester() {
  System.out.print(this.x); // line 4
  Tester();
 }

 public static void Tester() { // line 8
  System.out.print(this.x); // line 9
 }

 public static void main(String... args) { // line 12
  new Tester();
}
}
```

Please choose only one answer:

- Compile error at line 4 (static x must be only accessed inside static methods)
- Compile error at line 8 (constructors can't be static)
- Compile error at line 9 (static methods can't invoke this)
- Compile error at line 12 (invalid argument type for method main)
- 44

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4.1.2. 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?

```
public class Tester {

 static int x = 4;
 int y = 9;

 public Tester() {
  System.out.print(this.x); // line 7
  printVariables();
 }

 public static void printVariables() {
  System.out.print(x); // line 12
  System.out.print(y); // line 13
 }

 public static void main(String... args) { // line 16
  new Tester();
 }
}
```

Please choose only one answer:

- Compile error at line 7 (static x must be only accessed inside static methods)
- Compile error at line 13 (static methods cant make reference to non-static variables)
- Compile error at line 16 (invalid argument type for method main)
- 49
- Compile error at line 12 (must access x by writing Tester.x)

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4.1.3. You have two packages, trunk1 and trunk2 where class Sheet declared...

Author: Yasser Ibrahim

You have two packages, trunk1 and trunk2 where class Sheet declared in trunk1

and class Container declared in trunk2, the following code contains a compilation error, where could it be?

```
package trunk1;

public class Sheet {

 public static int pageNumber = 99; // line 1
 Sheet() {} // line 2
}



package trunk2;

import trunk1.Sheet;

public class Container {

 public static void main(String... args) { //line 1
  System.out.print(Sheet.pageNumber); //line 2
  Sheet sheet = new Sheet(); //line 3
      }
}
```

Please choose only one answer:

- In package trunk1 at line 2, constructor Sheet must be marked public like its class
- In package trunk2 at line 1, invalid string argument for method main()
- In package trunk2 at line 2, invalid access to member pageNumber
- In package trunk2 at line 3, invalid call to constructor Sheet()

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4.1.4. You have three packages, trunk1,trunk2 and trunk3, What is the expe...

Author: JavaChamp Team

You have three packages, trunk1,trunk2 and trunk3, What is the expected output of compiling and running file Tester?

```
package trunk1;

public class Account {

 Account() { //line 1
  System.out.println("Account");
 }
}




package trunk2;

import trunk1.Account;

public class CurrentAccount extends Account{
 public CurrentAccount() { // line 2
  System.out.println("CurrentAccount");
 }
}




package trunk3;

import trunk1.Account;
import trunk2.CurrentAccount; // line 3

public class Tester {

 public static void main(String[] args) {
  Account c = new Account(); // line 4
  CurrentAccount ca = new CurrentAccount();
 }

}
```

Please choose all the answers that apply:

- Account
  CurrentAccount
- Account
  Account
  CurrentAccount
- Compilation error in package trunk1 at line 1
- Compilation error, in package trunk2 at line 2

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- Compilation error, in package trunk3 at line 3
- Compilation error, in package trunk3 at line 4

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4.1.5. 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?

```
public class Tester {

 static int p = test(); //line 1

 static public int test() {
  System.out.print(p); //line 4
  return 99;
 }

 public static void main(String[] args)
        {
     System.out.print(p);//line 11
        }
}
```

Please choose only one answer:

- 099
- Compilation error at line 1, p must be initialized by a value
- Compilation error at line 4, using uninitialized variable p
- Compilation error at line 11, p must be called using its class by writing Tester.p

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4.1.6. Consider the following two classes declared and defined in two diff...

Author: JavaChamp Team

Consider the following two classes declared and defined in two different packages, what can be added in class B to form what considered a correct access to class A from main() method of class B?

```
package subPackage;

public class A { }




package anotherPackage;
// line 1
public class B {
 public static void main(String[] args) {
  // line 2
 }
}
```

Please choose all the answers that apply:

- at line 1 add nothing
  at line 2 add : new A();
- at line 1 add: import package.*;
  at line 2 add : new subPackage.A();
- at line 1 add: import subPackage.*;
  at line 2 add : new A();
- at line 1 add: import subPackage.A;
  at line 2 add : new A();
- at line 1 add nothing
  at line 2 add : new subPackage.A();

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4.1.7. Given the following declarations, what is considered a correct stat...

Author: JavaChamp Team

Given the following declarations, what is considered a correct statement?

```
interface Chewable {}
interface Eatable extends Chewable{}
class Vitamin{}
class Food implements Eatable { Vitamin[] vitamins;}
```

Please choose all the answers that apply:

- Eatable is Chewable
- Vitamin is Eatable
- Food is Chewable
- Food has Vitamin
- Vitamin has Food
- Food is an Object

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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?

```
class Base {

 private Base() {System.out.print("Base");}

}

public class Derived extends Base {

 public Derived() {System.out.print("Derived");}


 public static void main(String[] args) {
  new Derived();
 }

}
```

Please choose only one answer:

- BaseDerived
- Derived
- Exception is thrown at runtime
- Compilation error

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4.1.9. Which of the following is true?

Author: Yasser Ibrahim

Which of the following is true?

Please choose all the answers that apply:

- When a class marked final, it cannot be extended
- When a method marked final, it cannot be overridden
- When a method marked final, it cannot be overloaded
- Local variables of a method cannot be final
- A variable of a primitive type (int,float,..) which marked final, its value at initialization cannot be changed

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4.1.10. What does it mean to mark a calss strictfp?

Author: JavaChamp Team

What does it mean to mark a calss strictfp?

Please choose only one answer:

- it means this class can't be subclassed
- it means this class can never be instantiated and it is to be extended
- it means that any method code in the class will conform to the IEEE 754 standard rules for floating points

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4.1.11. What can be marked with strictfp modifier?

Author: Yasser Ibrahim

What can be marked with strictfp modifier?

Please choose all the answers that apply:

- an interface
- a class
- a member method
- a member field
- a local variable

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4.1.12. A top level Java class can have the following modifiers:

Author: JavaChamp Team

A top level Java class can have the following modifiers:

Please choose all the answers that apply:

- strictfp and final
- abstract and final
- public and abstract
- protected
- private

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4.1.13. An inner class in java can have the following modifiers (at the sam...

Author: JavaChamp Team

An inner class in java can have the following modifiers (at the same time):

Please choose all the answers that apply:

- public and abstract
- abstract and final
- protected
- private

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4.1.14. What is the output ?

Author: Nikhil Kumar

What is the output ?

```
class InitDemo{
    static int i=demo();
    static{System.out.println(i);}
    InitDemo(){
        System.out.println("hello 1");
    }
   public static void main(String... args){
        System.out.println("Hello 2");
   }
  static int demo(){
       System.out.println("Inside Demo");
       return 10;
    }

}
```

Please choose only one answer:

- Compilation error
- IllegalArgumentException is thrown at runtime.
- Inside Demo
  10
  Hello 2
- Hello 2
  Inside Demo
  10

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4.1.15. This is legal or not?

Author: MrDick

This is legal or not?

```
final strictfp public class Parent implements Serializable {}
```

Please choose only one answer:

- legal and compile free
- No, there is compliation error(s)

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4.1.16. Which of the following are NOT LEGAL Java identifiers according to ...

Author: AlinaIoana Florea

Which of the following are NOT LEGAL Java identifiers according to the "java language specification"?

```
int ;                  // line 1
int _______9_y;          // line 2
int €a;                  // line 3
int  £b_, c;             // line 4
int this_is_a_way_too_long_name_for_an_identifier;   // line 5
int d3#;               // line 6
int -e, 7g, :h;      // line 7
float .f;              // line 8
double _$_$;       // line 9
int true = 10;     // line 10
int null = 4;        // line 11
int foo = 3;        // line 12
int Foo = 3;        // line 13
int continue = 6;  // line 14
int Volatile = 6;  // line 15
public abstract void addEvent(); // line 16
```

Please choose all the answers that apply:

- lines 1, 3, 4 - contain invalid characters for Java identifiers
- line 5 - is too long

  line 16 - in not a valid JavaBean identifier for a method that want to add a listener to an event source
- lines 6 and 8 - can NOT contain "#" and "." even if assigned to a numeric or floating point variable
- line 7 - can NOT contain the characters "-" and ":", nor can a Java identifier start with a digit
- lines 10, 11 and 14

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4.1.17. Which of the following are NOT valid JavaBeans identifiers for meth...

Author: AlinaIoana Florea

Which of the following are NOT valid JavaBeans identifiers for methods that add/remove listeners from an event source?

```
// Event subscribers:
public void addXListener(MyListener m) // line 1
void addXListener() // line 2
public void addEvent(Event e) // line 3
public void addEventListener(EventListener e) // line 4
// Event removers:
public void removeMyListener(MyListener m) // line 5
public void removeMyListener() // line 6
public void deleteActionListner(ActionListsner m) // line 7
```

Please choose all the answers that apply:

- lines 1 and 3 - the names of the methods do not match the type of argument they receive + JavaBeans adder/remover methods should always end with "Listener"
- line 2 - JavaBeans methods must be public in order to provide access to the private variables of a class + it's missing an argument of type XListener
- line 4 - it's adding or missing something
- line 5 - the name of its argument should be more meaningful
- line 6 - it misses the event to be removed
- line 7 - should be "remove" instead of "delete"

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4.1.18. Which of the following are NOT valid JavaBeans method identifiers f...

Author: AlinaIoana Florea

Which of the following are NOT valid JavaBeans method identifiers for setters/getters of private class variables?

```
// Property setters:
void setCustomername() // line 1
public int modifyValue(int val) // line 2
public void setCustomerName(String customer) // line 3
public void setIsAlive(boolean isAlive) // line 4
public void addSize(int size) // line 5
public void putSize(int size) // line 6
// Property getters:
public int getMyValue() // line 7
public int getAccount#(String clientName) // line 8
protected boolean getHappy() // line 9
public boolean isHappy() // line 10
public boolean getHappy() // line 11
public int isNrOfFlowers() // line 12
```

Please choose all the answers that apply:

- lines 1 and 9 - JavaBeans methods must be public in order to provide access to the private variables of a class
- lines 2, 5 and 6 - according to JavaBeans "add" should be used only with listener methods, and "set" should be used instead of "put" and "modify"
  line 8 - will produce a compile-time error due to invalid Java identifier
- line 3 - the method's argument name should match the one its name: "customerName"
- lines 4, 7 and 11 - are adding or missing some things
- line 10 - it should be getHappy() because it's a getter method as it returns a value
- line 12 - "nrOfFlowers" seems to be of type "int" not "boolean", as that's what the method is returning, so it should be "get" instead of "is"

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4.1.19. Correct the code in AnimalXyZ.java:

Author: AlinaIoana Florea

Correct the code in AnimalXyZ.java:

```
public /*x1*/ class /*x2*/ Animal implements Runnable {}

package test2;
/*x3*/import java.io.Serializable;

/*x4*/public class Dog extends Animal implements /*x5*/ Serializable
{
    void /*x6*/ doStuff(/*x7*/int arg1, int /*x8*/ arg2) {} // wrong comments
}

class X{}
class Y{}
```

Please choose all the answers that apply:

- remove the "x#" comments, they are placed in wrong places
- move the package and the import statements at the beginning of the file
- make "Animal" and "Dog" abstract as they do NOT implement the run() from the Runnable interface
- remove the "public" from "Dog", as only one class can be public in a .java file
- - rename "Animal" to "AnimalXyZ" as the only public class in a .java file must match the name of the file
  - OR make ALL classes in the file "default"
- "import java.lang.Runnable;" is necessary at beginning of the file

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4.1.20. Choose all the lines which if inserted independently instead of "//...

Author: AlinaIoana Florea

Choose all the lines which if inserted independently instead of "//insert code here" will allow the following code to compile:

```
public class Test
{
   public static void main(String[] args)
   {
      add();
      add(1);
      add(1, 2);
   }

   // insert code here
}
```

Please choose only one answer:

- 1. void add(Integer... args){}
- 2. static void add(int... args, int y){}
- 3. static void add(int args...){}
- 4. static void add(int[]... args){}
- 5. static void add(int...args){} ;

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4.1.21. Correct the following code: (consider the packages as each being in...

Author: AlinaIoana Florea

Correct the following code: (consider the packages as each being in a different file)

```
package pkgA;

public class X1
{
   X1() // line 1
   {
      public int x1 = 11;  // line 2
      protected int x2=22;  // line 2
      int x3 = 33;
      private int x4 = 44; // line 2

      System.out.println(x1 + "" + x2 + x3 + x4); // line 3
   }

   public int x1 = 1;
   static protected int x2 = 2;
   int x3 = 3;
   private int x4 = 4;
}

class X2 extends X1
{
   private int x4 = 4; // line 3.5

   public X2()
   {
      System.out.println(x1 + x2 + x3 + x4); // line 4

      X1 x1 = new X1();
      System.out.println(x1.x1 + x1.x2 + x1.x3 + x1.x4); // line 4
   }
}

protected class X3 {} // line 5
private class X4 {} // line 5

//_____________________________________________________________
package pkgB;
import pkgA.*;

class Y extends X1
{
   Y()
   {
      System.out.println(x1 + x2 + x3 + x4); // line 6.1

      X2 x2 = new X2(); // line 7

      X1 x1 = new X1(); // line 8
      System.out.println(x1.x1+ x1.x2 + x1.x3 + x1.x4); // line 6.2
   }
}

public class Test extends Y
{
```

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```
   public static void main(String[] args)
   {
      new Test().go();
   }

   void go()
   {
      System.out.println(x1 + x2);  // line 6.1

      Y y = new Y();
      System.out.println(y.x1+ y.x2 + y.x3 + y.x4); // line 6.2
   }
}
```

Please choose all the answers that apply:

- line 1 - X1's constructor must be public for "new" to succeed on line 8. And a similar thing is on line 7, which will work only if the class X2 is made public in its package.
- lines 2 - local/method variables can be only "final" or "default"
- line 3 - won't compile because of the quotes added to those integers
  line 3.5 - is not allowed to define a var with the same name as in the superclass
- lines 4 - can not print "x4" as it's private in class X1 so it can be used only inside X1
- lines 5 - when defined in a package, classes are allowed to be also static, private or protected
- lines 6 - should follow the same rules as the lines 4: "default" and "private" variables must be removed + the "protected" vars kept only when used through inheritance: on lines 6.1

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4.1.22. (SCJP6) Correct the following code:

Author: AlinaIoana Florea

(SCJP6) Correct the following code:

```
final class X1
{
   final X1() { System.out.print(B); } // line 1

   final int B = 9;

   final private void doStuff() {} // line 2
}

class X2 extends X1 // line 3
{
   final int B = 9;

   final static void doStuff() { System.out.println("hello from X2"); }
}

public class Test extends X2
{
   public static void main(String[] args)
   {
      doStuff();
      new Test().doStuff(3);
   }

   static void doStuff() {} // line 4
   void doStuff(int arg) {  System.out.println("hello from Test"); } // line 5
}
```

Please choose all the answers that apply:

- line 1 - can not make a constructor final because it's not inheritable so it can not be anyway overridden
- lines 3 - can not extend/subclass a final class
- Can not use in class X2 the same variable and method names as in its superclass X1
- line 4 - can not override a final inherited method
- line 5 - can not overload a final inherited method
- line 2 - "final" can not be mixed with "private"

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4.1.23. (SCJP 6) Find the errors in:

Author: AlinaIoana Florea

(SCJP 6) Find the errors in:

```
static class X // line 1
{
   static { a = 3; } // line 2

   static X() {} // line 1

   int a;
   static int b;

   void doX(){  System.out.println("In X" + a + b);  }  // line 3
   static void doStuff() {   System.out.println("In X" + /*a*/ + b);   } // line 4
}

public class Test extends X
{
   public static void main(String[] args)
   {
      X x = new X();

      doStuff();
      x.doStuff(); // line 5
      X.doStuff(); // line 5.2
   }

   void doStuff() // line 6
   {
      System.out.println("In Test");
   }
}
```

Please choose all the answers that apply:

- lines 1 - "static" can not mark classes and constructors
- line 2 - "static" can not mark an initialization block {}
- lines 2 - "b" must be used instead of "a" as in a static context(method/init block) it's possible to access only static variables
- lines 3 - a non-static context can access only non-static variables
- line 4 - a static method can access non-static variables("a"), but an error will occur because of the way "a" is commented leaving two "+" inside the print()
- line 6 - to be a valid override it must not be less accessible, so it must keep its static status + "static" is needed also because it's called directly in the static method main()

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4.1.24. Spot the errors in:

Author: AlinaIoana Florea

Spot the errors in:

```
static int x; // line 1
static { System.out.println(x);  x = 1; } // line 1

class X
{
   int x;
   static int y;
    static Integer z = new Integer(1);

   System.out.println(x + y); // line 2

   X()
   {
      for(int __x = 0; __x < 3; __x++) ;
         int #lb = 7; // line 3

      long [] arr [5]; // line 4
      Boolean []b[];

      System.out.println(x + y + z); // line 5
      System.out.println(x + y + "" + z); // line 6

      System.out.println(new X()); // line 7
   }
}
```

Please choose all the answers that apply:

- lines 1 - everything in Java must be within a class
  line 2- can not print here
- line 3 - will produce a compilation error because it's using an invalid Java identifier
- the "for" statement before line 3 will not compile because of the semicolon following it
- line 4 - an array must specify its size only when creating an object of its type not at declaration
- line 6 - will not compile because of the added quotes
- line 7 - will produce a run-time infinite loop which will crash JVM

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4.1.25. (SCJP6) Correct the following code:

Author: AlinaIoana Florea

(SCJP6) Correct the following code:

```
class X
{
   X()
   {
      System.out.print(B);

      final int B; // line 1
      B=7;
      System.out.print(B);
      B=8; // line 2
      System.out.print(B);
   }

   int a;
   final int B = 9; // line 3
}

public class Test
{
   public static void main(String[] args)
   {
      final X x = new X();
      System.out.print(x.a);

      x = new X(); // line 4
      x.a = 3; // line 5
      System.out.println(x.a);
   }
}
```

Please choose only one answer:

- Final variables must be assigned an initial value, so the final variable "B" from line 1 must receive an initial value at its declaration time
- Lines 2 and 4 must be removed as final variables can not be reassigned
- Line 5 must be removed as is not allowed to modify the object referred by a final reference variable

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4.1.26. (SCJP 6) Find the errors in:

Author: AlinaIoana Florea

(SCJP 6) Find the errors in:

```
class X
{
   X()
   {
      System.out.print(a);

      static int a; // line 1
      a=4;

      System.out.print(a);
      System.out.print(b);
   }

   int a;
   static int b;
}

public class Test extends X
{
   public static void main(String[] args)
   {
      X x = new X();

      System.out.println(a + "" + x.a + X.a); // line 2
      System.out.println(b + "" + x.b + X.b);
   }
}
```

Please choose all the answers that apply:

- line 1 - inside a method there can be only "final" and "default" variables, so line 1 should be removed
- line 1 - it would anyway not be allowed to define another "int a;" inside the constructor X()
- line 2 - "a" is not static inside X so it can not be called directly in a static context/main(), nor can it be called directly on class X
- The print lines inside main() will produce a compile-time error due to the quotes added to integer variables
- Static variables must be given a default value at their declaration time

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4. Chapter: Interfaces and Abstract Classes

1. Interfaces and Abstract Classes Questions

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4.1.1. Is the following declaration for interface Bendable correct and fre...

Author: Yasser Ibrahim

Is the following declaration for interface Bendable correct and free of compilation error?

```
abstract interface Bendable { // line 1

 final int x = 2009; // line 3

 void method1() ; // line 5
 public static class Angle {} // line 6
}
```

Please choose only one answer:

- Yes, this is a correct and free of error declaration
- No, compilation error at line 1 , abstract should be removed
- No, compilation error at line 3 , x should be declared public final
- No, compilation error at line 5 , method method1() should be declared public abstract
- No, compilation error at line 6 , can't declare a class inside an interface

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4.1.2. Is the following declaration for interface Bendable correct and fre...

Author: Yasser Ibrahim

Is the following declaration for interface Bendable correct and free of compilation error?

```
abstract interface Bendable { // line 1
 final int x = 2009; // line 3
 void method1(); // line 5
}
```

Please choose only one answer:

- Yes, this is a correct and free of error declaration
- No, compilation error at line 1, Bendable should be declared public abstract
- No, compilation error at line 3 , x should be declared public final
- No, compilation error at line 5 , method method1() should be declared public abstract

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4.1.3. Is the following declaration for interface Bendable correct and fre...

Author: JavaChamp Team

Is the following declaration for interface Bendable correct and free of compilation error?

```
abstract interface Bendable { // line 1
 final int x = 2009; // line 3
 void method1(){}; // line 5
}
```

Please choose only one answer:

- Yes, this is a correct and free of error declaration
- No, compilation error at line 1
- No, compilation error at line 3
- No, compilation error at line 5

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4.1.4. Will the following code compile correctly?

Author: Yasser Ibrahim

Will the following code compile correctly?

```
abstract class AirPlane {

 abstract void fly();

 void land() { // line 5
  System.out.print("Landing..");
 }

}

class AirJet extends AirPlane {

 AirJet() {
  super(); // line 14
 }

 void fly() {
  System.out.print("Flying..");
 }
}
```

Please choose only one answer:

- Yes, it will compile with no errors
- No, because at line 5 method land() must be abstract since class AirPlane is abstract
- No, because class AirJet must override method land()
- No, because at line 14 AirJet constructor is calling the super() while AirPlane has no constructor defined

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4.1.5. The following code contains a compilation error , what can be done ...

Author: Yasser Ibrahim

The following code contains a compilation error , what can be done to fix this error - independently?

```
abstract class AirPlane { // line 1
 abstract void fly(); // line 2

 void land() {
  System.out.print("Landing..");
 }

}

class AirJet extends AirPlane { // line 10

 AirJet() {
  super(); // line 13
 }

 void fly() {
  System.out.print("Flying..");
 }

 abstract void land() ; // line 20
}
```

Please choose all the answers that apply:

- Remove abstract from line 20 and add body to method land()
- Declare class AirJet as abstract to at line 10
- Remove super() call at line 13
- Remove abstract at line 1 and line 2

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4.1.6. Which of the following is true?

Author: Yasser Ibrahim

Which of the following is true?

Please choose all the answers that apply:

- If a class is declared abstract , it must contain at least one abstract method
- If a class is declared abstract , all its methods must be abstract
- A method can either be final or abstract
- If a method is abstract then its class must be declared abstract
- An Abstract method has no body and ends with a semicolon

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4.1.7. Which of the following variables is incorrectly declared?

Author: JavaChamp Team

Which of the following variables is incorrectly declared?

```
public abstract interface Bouncable {

 int a = 0;
 public int b = 1;
 public static int c = 2;
 public static transient int d = 3;
 public final int e = 3;
 public static final int f = 3;

}
```

Please choose only one answer:

- a
- b
- c
- d
- e
- f

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4.1.8. Three of the methods are incorrectly declared, which are they?

Author: JavaChamp Team

Three of the methods are incorrectly declared, which are they?

```
public abstract class Tester {
 public void test1();
 public final void test2() {};
 public static void test3() {};
 public abstract static void test4();
 public abstract final void test5();
}
```

Please choose only one answer:

- test1 , test2 and test4
- test2 , test4 and test5
- test1 , test4 and test5

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4.1.9. Considering the following declaration for interface Convertable, wh...

Author: Yasser Ibrahim

Considering the following declaration for interface Convertable, which of the following code segments will compile?

```
public interface Convertable {

 int convertToInt();
 char convertToChar();

}
```

Please choose all the answers that apply:

- class Digit implements Convertable {
  public char convertToChar() {
  return 0;
  }
  public int convertToInt() {
  return 0;
  }
  }
- abstract class Digit implements Convertable {
  int convertToInt() ;
  char convertToChar();
  }
- abstract class Digit implements Convertable {

  public int convertToInt() {
  return 0;
  }
  }
- abstract class Digit implements Convertable {
  public int convertToInt() {
  return 0;
  }
  char convertToChar();
  }
- class Digit implements Convertable {
  int convertToInt() {
  return 0;
  }

  char convertToChar() {

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```
  return 0;
 }
}
```

- ```
  interface Roundable extends Convertable {
   int roundUp();
  }
  ```

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  ```

4.1.10. Which of the following declaration will compile without errors?

Author: JavaChamp Team

Which of the following declaration will compile without errors?

Please choose all the answers that apply:

- public abstract class Digit { public abstract void print(); }
- public class Digit { public abstract void print(); }
- public abstract class Digit { public abstract void print(){} }
- public abstract class Digit { public void print();}
- public class Digit { public void print(){};}

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4.1.11. Which of the following is correct about an interface in java?

Author: Yasser Ibrahim

Which of the following is correct about an interface in java?

Please choose all the answers that apply:

- An Interface can declare data members but must be constants
- All methods in an interface are implicitly abstract
- Methods in an interface may be public, private, protected.
- An interface can implement an abstract class
- An interface can be final

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4.1.12. To resolve the compilation error(s) in the following code, what can...

Author: Yasser Ibrahim

To resolve the compilation error(s) in the following code, what can be done independently :

```
interface Movable {
 public abstract void m1(); // line 1
 void m2();  // line 2
 public void m3();  // line 3
 abstract void m4();  // line 4
}
class Chair implements Movable {  // line 5
 public void m1() { }  // line 6
 void m2() { }  // line 7
}
```

Please choose all the answers that apply:

- mark class Chair "abstract"
- mark Chair "abstract" and mark m2() "public"
- implement m3() and m4() in Chair (with public access modifier)
- implement the methods m3() and m4() in Chair (with public access modifier) and mark m2() in Chair "public"

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4.1.13. What is the correct output?

Author: MrDick

What is the correct output?

```
public interface Father {

    public void go();
}


 public interface Mother {

    public void go();
}

 class  Test implements Father, Mother   { // line 1

    @Override
 public void go(){   // line 2
            System.out.println("Child");
        }

 public static void main(String args[]) {

  new Test().go(); // line 3
 }
}
```

Please choose only one answer:

- Compilation error in line 1
- compliation error in line 2
- Child
- compilation error in line 3

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4.1.14. Correct the following code:

Author: AlinaIoana Florea

Correct the following code:

```
interface Pet
{
   int MAX_PET_NR = 10;
   void play();
}

interface Dressable
{
   void dress();
}

interface Animal {} // line 1

abstract class Dog extends Animal, Dressable, Pet // line 2
{
   public void play(int min){}
   void dress(){} // line 3
   void bark(){}
}

class Bulldog extends Dog implements Pet
{
   Dog dog;
   Dog dog1 = new Dog(); // line 4
   Dog dog2 = new Bulldog();

   void bark() throws RuntimeException // line 5
   {
      MAX_PET_NR = 2; // line 6
   }; // line 5
}
```

Please choose all the answers that apply:

- line 1 - a class(abstract or concrete) can not be empty
- line 2 - interfaces must be "implemented" by non-interface classes, and "extended" only by other interfaces
- line 3 - to be a valid implementation/override, dress() must stay at least the same as available, so it must keep the "public" access with which was marked automatically in its interface
- line 4 - is not ok as Dog is abstract so might not contain fully implemented methods from which to create a whole object. Also Bulldog has to implement play() as the version inherited from Dog is an overload not an override.
- line 5 - to be a valid override barck() may not throw any exception if the class it overrides doesn't throw an exception. Nor is it valid for Bulldog to extend again Pet as it inherits it already from Dog.

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4. Chapter: Exceptions

1. Exceptions Questions

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4.1.1. What is the expected output?

Author: JavaChamp Team

What is the expected output?

```
import java.io.IOException;

class Father {
 public Father() throws IOException {
  System.out.print("Father");
  throw new IOException();
 }
}

class Son extends Father {
 public Son() throws IOException {
  System.out.print("Son");

 }
}

public class Tester {
 public static void main(String[] args) {
  try {
   new Son();
  } catch (IOException e) {
   System.out.print("Inside catch");
  }
 }
}
```

Please choose only one answer:

- Compile error, constructors can't throw Exceptions
- FatherSon
- FatherInside catch
- Father, then an IOException is thrown
- Son
- SonInside catch

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4.1.2. What is the expected output of compiling and running this code?

Author: Yasser Ibrahim

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

```
class Father {
 public Father() throws RuntimeException {
  System.out.print("Father");
  throw new RuntimeException();
 }
}

class Son extends Father {
 public Son() throws RuntimeException {
  System.out.print("Son");

 }
}

public class Tester {
 public static void main(String[] args) {
   new Son(); // line 17

 }
}
```

Please choose only one answer:

- Compile error, an import to java.lang.RuntimeException is required
- Father will be printed then a RuntimeException would be thrown
- Compile error at line 17, new Son() should be within a try/catch block
- Son
- SonFather
- FatherSon

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4.1.3. What is the expected result of compiling and running the following ...

Author: Yasser Ibrahim

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

```
import java.io.IOException;

class AirPlane {
 public AirPlane()  {
  System.out.print("AirPlane");
 }
}

class AirJet extends AirPlane {
 public AirJet() throws IOException {
   try {
  throw new IOException();
   } catch (IOException e) {
   System.out.print("IOException is thrown in AirJet");
         }
 }
}

public class Tester {
 public static void main(String args[]) {
     try {
  new AirJet();
     } catch (IOException e) {
  System.out.print("IOException is thrown in Tester");
       }
 }
}
```

Please choose only one answer:

- "AirPlaneIOException is thrown in AirJetIOException is thrown in Tester" will be printed
- "AirPlaneIOException is thrown in AirJet" will be printed
- "AirPlaneIOException is thrown in Tester" will be printed
- Compilation error

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

Author: JavaChamp Team

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

```
import java.io.IOException;

class AirPlane {
 public AirPlane() throws IOException, RuntimeException {
  System.out.println("AirPlane");
 }
}

class AirJet extends AirPlane { } // line 7

public class Tester {
public static void main(String args[]) throws IOException { // line 10
 new AirPlane(); // line 11
}
}
```

Please choose only one answer:

- AirPlane
- Compile error at line 7, AirJet must declare a constructor that throws IOException or any of its supertypes
- Compile error at line 10, main() must throw also RuntimeException
- Compile error at line 11 ,new AirPlane() must be within try/catch block

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4.1.5. What is the expected output?

Author: Yasser Ibrahim

What is the expected output?

```
interface Foldable {
  public void fold() throws Exception ;

}


class Paper implements Foldable {
 public void fold() { // line 6
         System.out.print("Fold");
       }
}


public class Tester {
   public static void main(String args []) {
         Foldable obj1 = new Paper();
         obj1.fold(); // line 8
         Paper obj2 = new Paper(); // line 10
         obj2.fold();
   }
}
```

Please choose only one answer:

- FoldFold
- Compilation error at line 6, fold() must declare at header throws Exception
- Compilation error at line 8, unhandled exception
- RuntimeException at line 8
- Compilation error at line 10, unhandled exception

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4.1.6. 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?

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

  System.out.print("1");
  try {
   System.out.print("2");
   System.exit(0);
  } finally {
   System.out.print("3");
  }
 }

}
```

Please choose only one answer:

- 123
- 12
- Compilation error , there should be at least one catch before finally

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4.1.7. 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?

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

  System.out.print("1");
  try {
   return;
  } catch (Exception e) {
   System.out.print("2");
  } finally {
   System.out.print("3");
  }
  System.out.print("4");
 }

}
```

Please choose only one answer:

- 1234
- 13
- 1
- Compilation error

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

Author: JavaChamp Team

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

```
public class Tester {

 public static void main(String[] args) {

  try {
   throw new RuntimeException();

  } catch (RuntimeException e) {
   System.out.println("RuntimeException");
  } catch (ArithmeticException e) {
   System.out.println("ArithmeticException");
  } catch (Exception e) {
   System.out.println("Exception");
  }
 }
}
```

Please choose only one answer:

- "RuntimeException" is printed
- "Exception" is printed
- "ArithmeticException" is printed
- Compilation error

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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?

```
public class Tester {

 static void method() throws Exception {
  throw new Exception();
 }

 public static void main(String[] args) {

  try {
   method();
  } catch (Throwable e) {
   try {
    throw new Exception() ;
   } catch (Exception ex) {
    System.out.print("exception");
   } finally {
    System.out.print("finally");
   }
  }
 }
}
```

Please choose only one answer:

- "exception" is printed
- "finally" is printed
- "exceptionfinally" is printed
- Compilation error

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4.1.10. 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?

```
public class Tester {

 static void method(){
  throw new Exception();
 }

 public static void main(String[] args) {

  try {
   method();
  } catch (Throwable e) {
   try {
    throw new Exception() ;
   } catch (Exception ex) {
    System.out.print("exception");
   } finally {
    System.out.print("finally");
   }
  }
 }
}
```

Please choose only one answer:

- exception
- finally
- exceptionfinally
- Compilation error

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4.1.11. The following code contains compilation errors, what of the followi...

Author: JavaChamp Team

The following code contains compilation errors, what of the following possible solutions (made together) can be done to remove these errors, putting in mind that all necessary imports will be added automatically?

```
import java.io.File;
import java.text.DateFormat;
import java.util.Date;

public class Tester {

  static void call() { // line 3
 File file = new File("javachamp.dat"); //line 4
 file.createNewFile(); // line 5
 throw new IllegalArgumentException(); // line 6
 }

  public static void main(String[] args) {

 call(); // line 11
 DateFormat df = DateFormat.getDateInstance(); // line 12
 Date parse = df.parse("12.11.2009"); // line 13
 }
}
```

Please choose all the answers that apply:

- Add throws IOException declaration to call() at line 3
- Add throws FileNotFoundException declaration to call() at line 3
- Add throws IllegalArgumentException declaration to call() at line 3
- Surround code from line 11 to 13 with try { } catch (IOException e) {} block
- Surround code from line 11 to 13 with try { } catch (Exception e) {} block

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4.1.12. 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?

```
public class Tester {

 public static void main(String[] args) {
  String stmt = "javachamp 2009";
  String[] arr = stmt.split(" ");
  try {
   int x = Integer.parseInt(arr[1]);
   System.out.print(x);
  } finally {
   System.out.print("finally");
  }
 }
}
```

Please choose only one answer:

- 2009
- finally
- 2009finally
- No output will be produced
- Compilation error

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4.1.13. 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?

```
public class Tester {

 public static void main(String[] args) {
  String stmt = "javachamp 2009";
  String[] arr = stmt.split(" ");
  try {
   int x = Integer.parseInt(arr[0]);
   System.out.print(x);
  } catch (Exception e) {
   System.out.print("catch");
  } finally {

   System.out.print("finally");
  }
 }
}
```

Please choose only one answer:

- 2009
- 2009finally
- catchfinally
- No output will be produced
- Compilation error
- 2009catchfinally

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4.1.14. In which case a NoClassDefFoundError will be thrown?

Author: JavaChamp Team

In which case a NoClassDefFoundError will be thrown?

Please choose only one answer:

- When try to compile a non found java file
- When try to run a non found java .class file
- When try to compile a non found java file or try to run a non found java .class file

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4.1.15. What is the output of the following code

Author: Pedro Kowalski

What is the output of the following code

```
public class Tester {

 public static void main(String[] args) {
  Double d = -4.0;

  try {
   d /= 0;
  } catch (ArithmeticException e) {
   System.out.println("EXCEPTION!");
  } finally {
   System.out.println(d);
  }
 }

}
```

Please choose only one answer:

- NotANumber
- NaN
- EXCEPTION! -4.0
- -Infinity
- EXCEPTION! 0.0
- Compilation fails

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4. Chapter: Inheritance

1. Inheritance Questions

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4.1.1. Are the following declarations correct, if you knew that they are ...

Author: JavaChamp Team

Are the following declarations correct, if you knew that they are in the same package?

```
interface Bouncable{ } // line 1

interface Colorable extends Bouncable{ } // line 2

class Super implements Colorable{ } // line 3

class Sub  implements Colorable extends Super { } // line 4
```

Please choose only one answer:

- Yes, the declarations are correct
- No there is a compilation error at line 2, must implements not extends
- No there is a compilation error at line 4, over implementing for interface Colorable, Super is already implementing it
- No there is a compilation error at line 4, extends should come before implements

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4.1.2. Which of the following is true?

Author: JavaChamp Team

Which of the following is true?

Please choose all the answers that apply:

- A class can extend more than one class
- A class can extend only one class but many interfaces
- An interface can extend many interfaces
- An interface can implement many interface
- A class can extend one class and implement many interfaces

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4.1.3. Which lines will evaluate to true?

Author: Yasser Ibrahim

Which lines will evaluate to true?

```
interface Colorable { }

interface Bouncable extends Colorable { }

class Super implements Bouncable { }

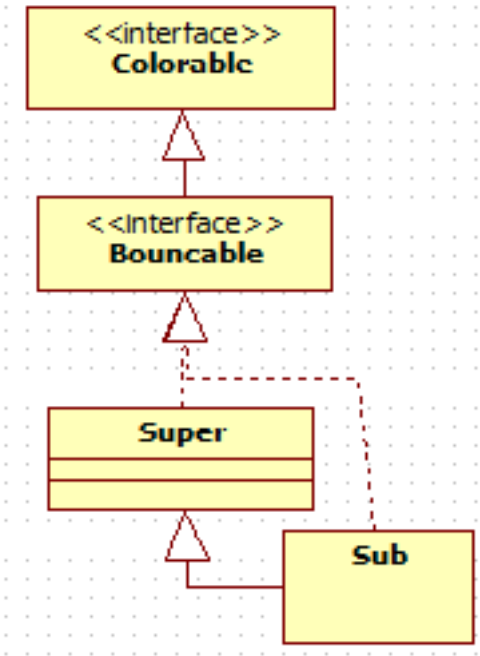
class Sub extends Super implements Bouncable { }

public class Tester {

  public static void main(String[] args) {

    System.out.println(new Sub() instanceof Super); //line 1
    System.out.println(new Sub() instanceof Bouncable);//line 2
    System.out.println(new Sub() instanceof Colorable);//line 3
    System.out.println(new Super() instanceof Sub);//line 4
    System.out.println(new Super() instanceof Colorable);//line 5

        }
}
```



Please choose only one answer:

- All lines will evaluate to true
- All lines will evaluate to true and only line 4 will evaluate to false
- Only line 1 and 2 will evaluate to true

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- Lines 3 and 5 will evaluate to false

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4.1.4. 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?

```
interface Colorable { }

interface Bouncable extends Colorable { }

class Super implements Bouncable { }

class Sub extends Super implements Bouncable { }

class Individual { }

public class Tester {

 public static void main(String[] args) {

  System.out.print(new Sub() instanceof Super);
  System.out.print(new Sub() instanceof Colorable);
  System.out.print(new Super() instanceof Sub);
  System.out.print(new Individual() instanceof Super);
 }
}
```

Please choose only one answer:

- truetruefalsefalse
- truefalsefalsefalse
- Compilation error
- RuntimeException becaue of the print statemen

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4.1.5. Will the following code compile and if yes , what is the output?

Author: Yasser Ibrahim

Will the following code compile and if yes , what is the output?

```
interface Colorable {}

class Vehicle {}

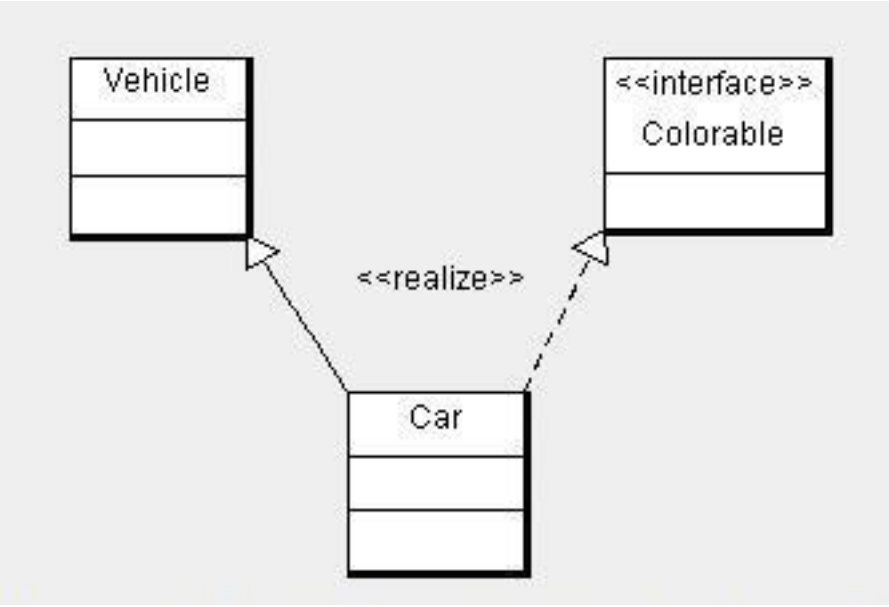
class Car extends Vehicle implements Colorable {}

public class Tester {

 public static void main(String[] args) {

  Vehicle a = new Car();
  Colorable i = (Colorable) a;

  Vehicle b = new Vehicle();
  Colorable j = (Colorable) b;
 }
}
```



Please choose only one answer:

- The code compiles fine and produces no output
- The code compiles fine but throws a RuntimeException because of the second casting
- There is a compilation error because of the second casting
- The code compiles fine but throws a RuntimeException because of the first casting

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4.1.6. Would the following code compile and if yes , what is the output?

Author: Yasser Ibrahim

Would the following code compile and if yes , what is the output?

```
interface Colorable {}

class Vehicle {}

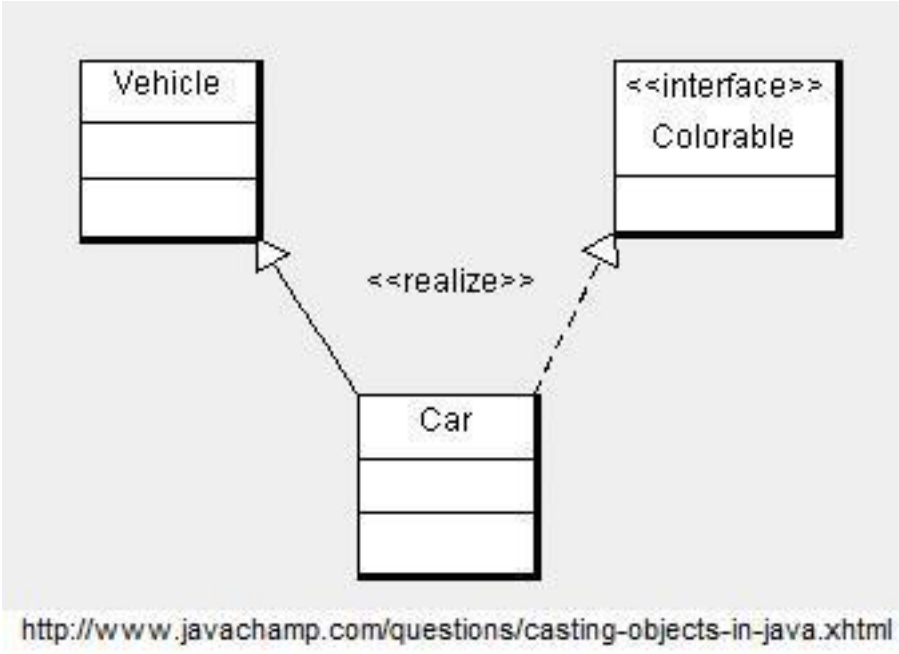
class Car extends Vehicle implements Colorable {}

public class Tester {

 public static void main(String[] args) {

  Vehicle a = new Car();
  Colorable i = (Colorable) a;

  Vehicle b = new Vehicle();
  Colorable j = (Colorable) b;
 }
}
```



Please choose only one answer:

- The code compiles fine and produces no output
- The code compiles fine but throws a RuntimeException because of the second casting
- There is a compilation error because of the second casting

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

Author: Yasser Ibrahim

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

```
class Category {
 Category() {
  System.out.print("Category_");
 }
}

class SubCategory extends Category {
 SubCategory() {
  System.out.print("SubCategory_");
 }
}

class SubSubCategory extends SubCategory {
 SubSubCategory() {
  System.out.print("SubSubCategory_");
 }
}

public class Tester {

 public static void main(String[] args) {
  new SubSubCategory();

 }

}
```

Please choose only one answer:

- SubSubCategory_SubCategory_Category_
- SubSubCategory_
- Category_SubCategory_SubSubCategory_

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4.1.8. 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?

```
interface Chewable {}
interface Eatable extends Chewable{}
class Food implements Chewable { }
class Meat extends Food {}
class Gum implements Chewable{}

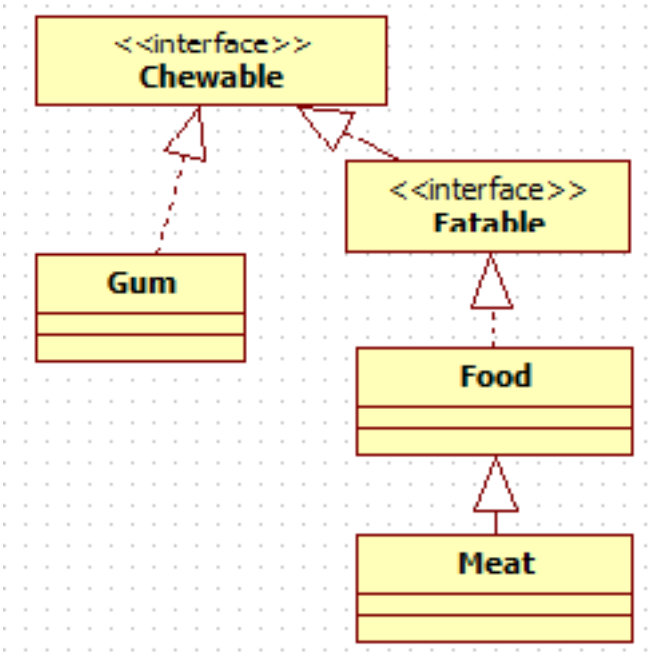
public class Tester {

 public static void main(String[] args) {

  Food food = new Food();
  Meat meat = new Meat();
  Gum gum   = new Gum();

  System.out.print(food instanceof Eatable);
  System.out.print(meat instanceof Food);
  System.out.print(gum instanceof Food);
  System.out.print(gum instanceof Chewable);

 }
}
```



Please choose only one answer:

- truetruetrutrue
- truetruefalsetrue

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- falsetruefalsetrue
- Compilation error

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4.1.9. 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?

```
interface Chewable {}
interface Eatable extends Chewable{}
class Food implements Eatable { }
class Meat extends Food {}
class Gum implements Chewable{}

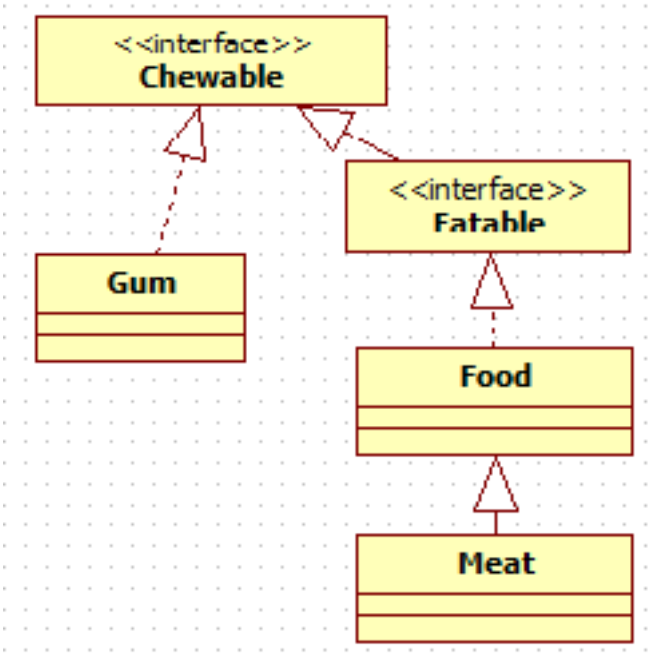
public class Tester {

 public static void main(String[] args) {

  Food food = new Food();
  Meat meat = new Meat();
  Gum gum   = new Gum();

  System.out.print(food instanceof Chewable);
  System.out.print(meat instanceof Eatable);
  System.out.print(gum instanceof Eatable);
  System.out.print(gum instanceof Chewable);

 }
}
```



Please choose only one answer:

- falsetruefalsetrue
- truetruefalsetrue

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- truetruetruetrue
- Compilation error

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4.1.10. Which of the following statements are correct?

Author: JavaChamp Team

Which of the following statements are correct?

Please choose all the answers that apply:

- A class can extend one class and many interfaces
- A class can implement one class and many interfaces
- A class can extend one class and implements many interfaces
- An interface can extend many classes and interfaces
- An interface can implement many classes and interfaces
- An interface can implement many interfaces
- An interface can extend many interfaces

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4.1.11. 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?

```
class Base {

 public void Base() {System.out.print("Base");}

}

public class Derived extends Base {

 public Derived() {System.out.print("Derived");}

 public static void main(String[] args) {
  new Derived();
 }

}
```

Please choose only one answer:

- BaseDerived
- DerivedBase
- Derived
- Base
- Compilation error

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4.1.12. 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?

```
class Base {

 public Base(String n)   {System.out.print("Base1");}
 public void Base(String n) {System.out.print("Base2");}


}

public class Derived extends Base {

 public Derived() {System.out.print("Derived");}

 public static void main(String[] args) {
  new Derived();
 }

}
```

Please choose only one answer:

- Base1Derived
- Base2Derived
- Derived
- Compilation error

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4.1.13. 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?

```
class Base {

 public Base() {System.out.print("Base");}

}

public class Derived extends Base {

 public Derived() {this("JavaChamp"); System.out.print("Derived");}
 public Derived(String s) { System.out.print(s);}


 public static void main(String[] args) {
  new Derived();
 }

}
```

Please choose only one answer:

- JavaChampDerived
- JavaChampBaseDerived
- BaseJavaChampDerived
- JavaChampDerivedBase
- Compilation error

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4.1.14. Which statement(s), inserted independently at // insert code here, ...

Author: Yasser Ibrahim

Which statement(s), inserted independently at // insert code here, will compile?

```
class Creature {
 String getName() {
  return "Creature";
 }
}

class Bird extends Creature {
 String getName() {
  return "Bird";
 }
}

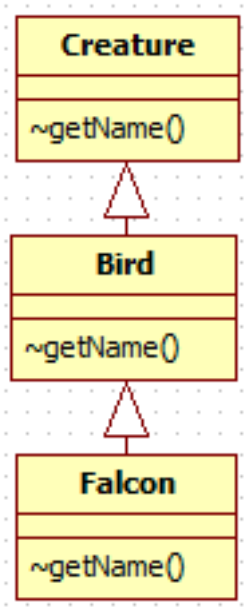
class Falcon extends Bird {
 String getName() {
  return "Falcon";
 }
}

public class Tester {

 public static Bird getIt(Creature c) {
  System.out.println(c.getName());
  return (Bird) c;
 }

 public static void main(String[] args) {
  // insert code here
 }

}
```



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Please choose all the answers that apply:

- getIt(new Creature());
- getIt(new Bird());
- getIt(new Falcon());
- getIt(new Object());

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4.1.15. The following program fails to compile, where could possibly be the...

Author: JavaChamp Team

The following program fails to compile, where could possibly be the compilation error(s)?

```
class Creature {}

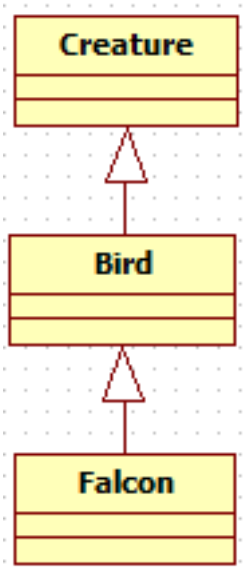
class Bird extends Creature {}

class Falcon extends Bird {}

public class Tester {

 public static void main(String[] args) {
  Creature c1 = new Creature();
  Creature c2 = new Bird();

  Bird b1 = (Bird) c1; // Line 1
  Bird b2 = (Falcon) c2; // Line 2
  Bird b3 = c2; // Line 3
  Bird b4 = new Falcon(); // Line 4
  Bird b5 = (Bird) new Creature(); // Line 5
  Falcon f1 = b4; // Line 6
 }
}
```



Please choose all the answers that apply:

- Line 1
- Line 2
- Line 3
- Line 4
- Line 5

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- Line 6

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4.1.16. What inserted, independently at // insert code here , will compile?

Author: Yasser Ibrahim

What inserted, independently at // insert code here , will compile?

```
class Creature {
 void grow() {
 }
}

class Bird extends Creature {
 void fly() {
 }
}

class Falcon extends Bird {
 void hunt() {
 }
}

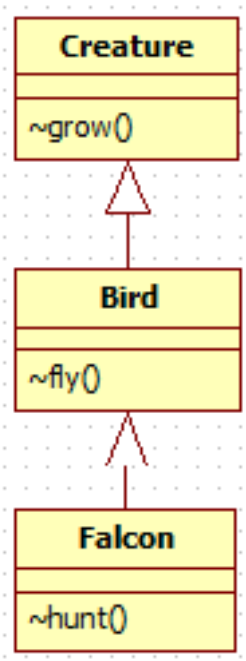
public class Tester {

 public static void main(String[] args) {
  Creature c1 = new Bird();
  Falcon c2 = new Falcon();

  // insert code here

 }

}
```



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Please choose all the answers that apply:

- c1.grow();
- c1.fly();
- ((Bird)c1).fly();
- ((Falcon)c1).hunt();

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4.1.17. What inserted, independently at // insert code here , will compile ...

Author: JavaChamp Team

What inserted, independently at // insert code here , will compile and run with no errors and exceptions?

```
class Creature {
 void grow() {
 }
}

class Bird extends Creature {
 void fly() {
 }
}

class Falcon extends Bird {
 void hunt() {
 }
}

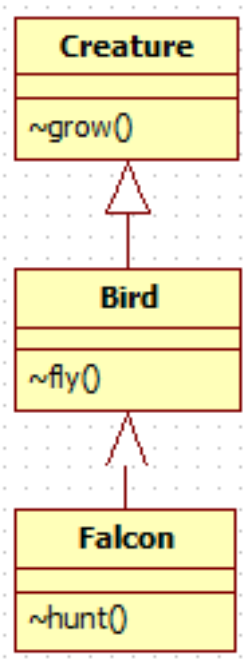
public class Tester {

 public static void main(String[] args) {
  Creature c1 = new Bird();
  Falcon c2 = new Falcon();

  // insert code here

 }

}
```



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Please choose all the answers that apply:

- c1.grow();
- c1.fly();
- ((Bird)c1).fly();
- ((Falcon)c1).hunt();

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4.1.18. considering AnyClassOrInterface is a class or an interface in java ...

Author: JavaChamp Team

considering AnyClassOrInterface is a class or an interface in java

what would the following statement print?

```
System.out.print(null instanceof AnyClassOrInterface );
```

Please choose only one answer:

- true
- false
- compilation error
- NullPointerException is thrown at runtime

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4.1.19. What is the output ?

Author: Nikhil Kumar

What is the output ?

```
class A{
   A(){
      System.out.println("Hello");
   }
}
class InitDemo extends A{
    A ob=new A();
    InitDemo(){
        System.out.println("hello 1");
    }
    public static void main(String... args){
        System.out.println("Hello 2");
        new InitDemo();
    }

}
```

Please choose only one answer:

- Hello 2
  hello 1
  Hello
  Hello
- Hello 2
  Hello
  Hello
  hello 1
- Hello 2
  Hello
  hello 1
  Hello
- Exception is thrown at runtime.

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4. Chapter: Arrays

1. Arrays Questions

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4.1.1. 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?

```
public static void main(String[] args) {

  int[] a = new int[0];
  System.out.print(a.length);
}
```

Please choose only one answer:

- 0
- Compilation error, arrays cannot be initialized to zero size
- Compilation error, it is a.length() not a.length

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4.1.2. 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?

```
public class Tester {

 static void test(int[] a) {
  int[] b = new int[2];
  a = b;
  System.out.print(b.length);
  System.out.print(a.length);
 }

 public static void main(String[] args) {

  int[] a = new int[5];
  test(a);
  System.out.print(a.length);

 }
}
```

Please choose only one answer:

- 225
- 255
- 200
- 222

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4.1.3. What is true after running the following code?

Author: JavaChamp Team

What is true after running the following code?

```
public static void main(String[] args) {

  String entries[] = {"entry1","entry2"};
  int count=0;
  while (entries [count++]!=null){
   System.out.println(count);
  }
                System.out.println(count);
 }
```

Please choose all the answers that apply:

- An Exception will be thrown
- 0 will be printed as part of the output
- 2 will be printed as part of the output
- 3 will be printed as part of the output

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4.1.4. Which of the following declarations of an array is incorrect?

Author: Yasser Ibrahim

Which of the following declarations of an array is incorrect?

```
public static void main(String[] args) {

    int[] a[];
    int b[3];
    int []c[];
    int[] d[];

}
```

Please choose only one answer:

- a
- b
- c
- d

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

Author: JavaChamp Team

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

```
public class Tester {

 final static int x[] = new int[5];

 public static void main(String[] args) {
  final int x = new Tester().x[5];

  if (x <= 10)
   System.out.println("javachamp");
 }
}
```

Please choose only one answer:

- Compilation error
- ArrayIndexOutOfBoundsException is thrown
- javachamp
- No output is produced

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4.1.6. public static void main(String[] args)
{
byte b1= 25;
byte b2=45...

Author: VenkaTESH POLNEEDI

public static void main(String[] args)

{

byte b1= 25;

byte b2=45;

byte b3= b1+b2;

}

Please choose only one answer:

- a)70
- b)CompileError
- c)25
- d)RunTimeException

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4.1.7. Consider the following command-line invocations?

i. java Arrays

...

Author: Waduge Livera

Consider the following command-line invocations?

i. java Arrays

ii. java Arrays 12

iii. java Arrays 12 32

```
class Arrays
{
   public static void main(String [ ] args){
  for(int x=0;args.length>x++;){
  System.out.print(args[x]+ " ");
  }
   }
}
```

Please choose all the answers that apply:

- A. Only the invocation i will complete without throwing exceptions
- B. Only Invocation i will throw an exception.
- C. Invocation ii will produce he output 12.
- D. Invocation iii will produce he output 12 32.
- E. Invocations ii and iii will throw exceptions.

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4.1.8. What is the result?

Author: Vinay K

What is the result?

```
public static void main(String[] args) {

 Object obj = new int[] { 1, 2, 3 }; // line 12
 int[] someArray = (int[])obj; // line 13
 for (int i : someArray) System.out.print(i + " "); // line 14

 }
```

Please choose only one answer:

- A. 1 2 3
- B. Compilation fails because of an error in line 12.
- C. Compilation fails because of an error in line 13.
- D. Compilation fails because of an error in line 14.
- E. A ClassCastException is thrown at runtime.

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4.1.9. What is the result of running the following code with "java Test de...

Author: AlinaIoana Florea

What is the result of running the following code with "java Test debug":

```
class Test
{
    public static void main(String [ ] args)
   {
        if (args.length == 1 | args[1].equals("debug"))
        {
            System.out.println(args[0]);
        }
        else
        {
            System.out.println("Release");
        }
    }
}
```

Please choose only one answer:

- Debug
- Release
- Compilation fails
- An exception is thrown at run-time

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4. Chapter: Operators

1. Operators Questions

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4.1.1. 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?

```
public class Tester {

 static int i ;

 private static int increment(int i) {
  return i++;
 }

 public Tester() {
  i = 1;
 }


 public static void main(String[] args) {
  System.out.print(i);
  System.out.print(i = increment(i));
 }
}
```

Please choose only one answer:

- 01
- 00
- 12
- Compilation error

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4.1.2. Which of the following "if" statement(s) will throw a NullPointerEx...

Author: JavaChamp Team

Which of the following "if" statement(s) will throw a NullPointerException (assuming each statement will be executed independently)?

```
public class Tester {
 public int code;
 public static void main(String[] args) {
  Tester val = null;
  if((val!=null) &  (val.code >0));//line 1
  if((val!=null) && (val.code >0));//line 2
  if((val==null) |  (val.code==0));//line 3
  if((val==null) || (val.code==0));//line 4
 }
}
```

Please choose all the answers that apply:

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

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4.1.3. 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?

```
public class Tester {

 static boolean isEven(int x) {
  return (x % 2 == 0) ? true : false;
 }

 public static void main(String[] args) {
  System.out.print(isEven(2));
  System.out.print(isEven(3));
  System.out.print(isEven(4));

 }

}
```

Please choose only one answer:

- truefalsetrue
- falsefalsetrue
- falsefalsefalse
- a compilation error
- an exception is thrown at run time

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4.1.4. 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?

```
public class Tester {

 public static void main(String[] args) {
  int x = 0;
  int i = 1;
  for (; i > 0; i--)
   if ((++x > 0) | (--i > 0))
   x++;
      System.out.println(x + "" + i);

 }
}
```

Please choose only one answer:

- Compilation error
- 21
- 20
- 2-1

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Question: Short circuit vs non shortcircuit operators in java
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4.1.5. 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?

```
public class Tester {

 public static void main(String[] args) {
  int x = 0;
  int y = 0;
  if ((true & false) | (true & false) & x++>0)
   System.out.print("stmt1 ");
  if (false || true | (++y> 0 | y++>0))
   System.out.print("stmt2 ");
   System.out.print(x+" "+y);
  }
}
```

Please choose only one answer:

- stmt1 stmt2 1 2
- stmt1 stmt2 0 0
- stmt2 1 2
- stmt2 0 2
- 0 0

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4.1.6. 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?

```
public class Tester {

 public static void main(String[] args) {
  System.out.print("" + 7 + 2 + " ");
  System.out.print(7 + 2 + " ");
 }
}
```

Please choose only one answer:

- 9 9
- 72 9
- 9 72
- 72 72

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4.1.7. 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?

```
public class Tester {

  public static void main(String[] args) {

   boolean flag = true;
   int x = 5;
   int result = (8 * 2) % x;
   System.out.print(!(result > 0) ^ true ^ (flag = false));
   System.out.print(flag);

 }
}
```

Please choose only one answer:

- truefalse
- truetrue
- falsefalse
- falsetrue
- Compilation error

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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?

```
public class Tester {

 public static void main(String[] args) {

  boolean flag = true;
  int x = 5;
  int result = (8 * 2) % x;
  System.out.print(!(result > 0) ^ true ^ !(flag = false));
  System.out.print(flag);

 }
}
```

Please choose only one answer:

- truefalse
- truetrue
- falsefalse
- falsetrue
- Compilation error

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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?

```
public class Test{

 public static void main(String argv[]) {

  Foo x = new Foo();
  Foo y = new Foo();
  Foo z = x;

  System.out.print(x == y);
  System.out.print(x == z);
 }

}

class Foo {}
```

Please choose only one answer:

- falsetrue
- falsefalse
- truetrue
- compilation error

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4.1.10. 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?

```
public class Test{

 public static void main(String argv[]) {
  int a = 6;
  if (a = 6)
   System.out.print("true");
 }

}
```

Please choose only one answer:

- no output is produced
- true
- a compilation error

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4.1.11. 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?

```
public static void main(String[] args) {
  System.out.print("4" + 5);
  System.out.print(4 + 5);
  System.out.print(4 + 5 + "9");
 }
```

Please choose only one answer:

- 4545459
- 459459
- 45999

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4.1.12. 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?

```
public static void main(String[] args) {
  int x = 0, y = 0;
  x = 5 + y++;
  System.out.print(x + "" + y);

  x = 0;
  y = 0;
  x = 5 + ++y;
  System.out.print(x + "" + y);
}
```

Please choose only one answer:

- 6161
- 671
- 5161

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4.1.13. 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?

```
public static void main(String[] args) {
  int x = 1, y = 0;
  if ((y == x++) && (x < ++y)) { }
  System.out.println(x + "" + y);
}
```

Please choose only one answer:

- 20
- 21
- 10
- 11

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Question: short-circuit AND in java
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4.1.14. 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?

```
public static void main(String[] args) {
  int x = 1, y = 0;
  if ((y == x++) || (x < ++y)) {  }
  System.out.println(x + "" + y);
 }
```

Please choose only one answer:

- 10
- 11
- 20
- 21

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4.1.15. 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?

```
public static void main(String[] args) {
  int x = 0, y = 0;
  if ((y == ++x) & (x < ++y)) {}
  System.out.println(x + "" + y);
}
```

Please choose only one answer:

- 10
- 11
- 20
- 21

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4.1.16. 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?

```
public static void main(String[] args) {
  int x = 0, y = 0;

  if ((y == x++) | (x < ++y)) {
   ++y;
  }
  System.out.println(x + "" + y);
}
```

Please choose only one answer:

- 00
- 10
- 11
- 12
- 22

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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?

```
public static void main(String[] args) {
  System.out.print(false ^ true);
  System.out.print(!false);
 }
```

Please choose only one answer:

- falsefalse
- falsetrue
- truefalse
- truetrue

Check the answer of this question online on QuizOver.com:
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4.1.18. what will be the output when we compile and execute the code below:

Author: Pankaj Gupta

what will be the output when we compile and execute the code below:

```
class Compound{
public static void main(String args[])
{
int k=12;
k/=--k;
System.out.println(k);
k*=k++;
System.out.println(k);
k*=++k;
System.out.println(k);
}
}
```

Please choose only one answer:

- It will compile successfully and display 1 followed by 2 and then 3 as an output.
- It will compile successfully and display 1 followed by 1 and then 2 as an output.
- It will compile successfully and display 1 followed by 3 and then 4 as an output.
- It will generate compile time error.

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4.1.19. What is the output of the running the following program?

Author: JavaChamp Team

What is the output of the running the following program?

```
class Test {
 public static void main(String arg[]) {
  A b = new B(1000);
  A c = new C(1000);
  System.out.println(b==c);
  System.out.println(b <= c);
 }
}

class A {
 int value;
}

class B extends A {
 B(int val) {
  value = val;
 }
}

class C extends A {
 C(int val) {
  value = val;
 }
}
```

Please choose only one answer:

- "true" then "false" will be printed
- "false" then "false" will be printed
- "false" then "true" will be printed
- compilation error at the first print statement
- compilation error at the second print statement

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

Author: JavaChamp Team

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

```
class Test {
 public static void main(String arg[]) {
  Integer x = 1000;
  long y = 1000;
  Integer z = 1000;
  System.out.println(x==y);
  System.out.println(x==z);
 }
}
```

Please choose only one answer:

- true then false will be printed
- true then true will be printed
- false then true wil be printed
- false then false will be printed
- compilation error at the first print statement
- compilation error at the second print statement

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4.1.21. What is the output of the following code?

Author: Pedro Kowalski

What is the output of the following code?

```
import java.util.Arrays;
import java.util.List;

public class Tester {
 public static void main(String[] arg) {
  int i = 1;
  int[] arr = {0, 1, 2};
  int z = 0;

  arr[i] = z = ++i;

  List<Integer> li = Arrays.asList(arr);

  System.out.println(li + "#" + z);
 }
}
```

Please choose only one answer:

- [0, 2, 2]#2
- [0, 1, 2]#2
- [0, 1, 2]#1
- [0, 2, 2]#1
- [0, 1, 2]#2
- compilation fails

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4.1.22. What is the output of the following code?

Author: Pedro Kowalski

What is the output of the following code?

```
import java.util.Arrays;
import java.util.List;

public class Tester {
 public static void main(String... xyz) {
  int i = 1;
  Integer[] arr = {0, 1, 2};
  int z = 0;

  arr[i] = z = ++i;

  List<Integer> li = Arrays.asList(arr);

  System.out.println(li + "#" + z);
 }
}
```

Please choose only one answer:

- [0, 2, 2]#2
- [0, 1, 2]#2
- [0, 1, 2]#1
- [0, 2, 2]#1
- compilation fails

Check the answer of this question online on QuizOver.com:
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4.1.23. What is the result of compiling and running the following program?

Author: Nikhil Kumar

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

```
class ExamDemo2{
 public static void main(String [] args){
  byte b=10;
  b+=10;
  System.out.println(b);
 }
}
```

Please choose only one answer:

- Compilation Fails due to possible loss of precision
- 20

Check the answer of this question online on QuizOver.com:
Question: use of compound assignment operator in java nikhil kumar
Permalink: http://www.quizover.com/pdf/use-of-compound-assignment-operator-in-java-nikhil-kumar

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

Author: Anonymous User

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

```
public class Test {
 public static void main(String... parans) {
  System.out.println(true?false?"7":false?"6":false?true?"5": true?"4":"3":"2":"1");
 }
}
```

Please choose only one answer:

- 1
- 2
- 3
- 4
- 5
- 6

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4.1.25. Taking in consideration the following declarations, which lines wil...

Author: AlinaIoana Florea

Taking in consideration the following declarations, which lines will compile?

```
float f = 1.1f;
float[] f1 = { 2.0f };
float[][] f2 = { {1.1f, 1.2f}, {2.0f}, {3.1f, 3.2f, 3.3f} };

Long b= 2L;
```

Please choose all the answers that apply:

- if (f == f2) {}
- if (f == f2[0][0]) {}
- if (b= f2[1][0]) {}
- if (f == f2[2, 1]) {}
- if (f1 == f2[1]) {}

Check the answer of this question online on QuizOver.com:
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4.1.26. (SCJP6) What is printed from:

Author: AlinaIoana Florea

(SCJP6) What is printed from:

```
byte b=10;
b += (b<127)? b>-128? b+=10 :0 :"5" ;
System.out.println(b);
```

Please choose only one answer:

- 20
- 30
- Compilation fails because "b > -128" is not surrounded by parenthesis
- Compilation fails because a String("5") can not be assigned to a "byte"
- An exception is thrown at runtime

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4. Chapter: Variables and Methods

1. Variables and Methods Questions

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4.1.1. 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?

```
public static void main(String[] args) {

  int x = 5, y;

  while (++x < 7) {
   y = 2;
  }
  System.out.println(x + y);
}
```

Please choose only one answer:

- 7
- 8
- 9
- a compilation error

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4.1.2. Would the following code compile and run?

Author: JavaChamp Team

Would the following code compile and run?

```
public class Tester {

 public static void main(String args) {
  System.out.println("JavaChamp");
 }
}
```

Please choose only one answer:

- The program will compile and run fine printing JavaChamp as output
- The program will compile fine but won't run correctly, a NoSuchMethodError exception would be thrown
- There is a compilation error at declaring the main() argument, should be an array of String instead

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4.1.3. 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?

```
public class Tester {

 static {
  int x = 3;
 }

 static int x;

 public static void main(String[] args) {
  x--; // line 7
  System.out.println(x);
       }
}
```

Please choose only one answer:

- 3
- 2
- -1
- Compilation error at line 7, x is not initialized

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

Author: JavaChamp Team

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

```
public class Tester {

 public static void main(String[] args) {
  int x = 1;
  int y;
  while(++x<5) y++;
  System.out.println(y);
 }
}
```

Please choose only one answer:

- 0
- 3
- 4
- Compilation error

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Question: How to use java local variables?
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4.1.5. 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?

```
public class Tester {

 public static void main(String[] args) {
  int x = 1;
  int y=0;
  while(++x<5) y++;
  System.out.println(y);
 }
}
```

Please choose only one answer:

- 0
- 3
- 4
- Compilation error

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4.1.6. 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?

```
public class Tester {

 public static void print(Integer arg){
   System.out.print("Integer");
 }

 public void print(int arg){
   System.out.print("int");
 }

 public static void main(String[] args) {

  print(new Integer(3));

 }

}
```

Please choose only one answer:

- int
- Integer
- RuntimeException is thrown at run time
- Compilation error

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4.1.7. Which of the following is a valid variable declaration?

Author: JavaChamp Team

Which of the following is a valid variable declaration?

Please choose all the answers that apply:

- int _javaChamp;
- int _;%javaChamp;
- int ;javaChamp;
- int 2009JavaChamp;
- int $JavaChamp;

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4.1.8. Which of the following methods follow the JavaBean standards?

Author: JavaChamp Team

Which of the following methods follow the JavaBean standards?

Please choose all the answers that apply:

- public void addJCListener(JCListener listener)
- void setName(String name)
- public void removeJCListener(MCListener listener)
- public boolean isDeleted()
- public void fetchName(String name)

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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?

```
public class Tester {

 public static void main(String[] args) {
  if(true){
   int x = 5;
   System.out.print(x);
  } else {
   ++x;
   System.out.print(x);
  }
 }
}
```

Please choose only one answer:

- 5
- 56
- 6
- Compilation error

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4.1.10. 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?

```
public class Tester {

 int x = 12;

 static void reset(Tester obj) {
  obj = null;
 }

 public static void main(String[] args) {
  Tester o1 = new Tester();
  reset(o1);
  System.out.print(o1.x);
 }
}
```

Please choose only one answer:

- 0
- 12
- Compilation error
- NullPointerException is thrown
- Another type of exception is thrown

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4.1.11. 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?

```
public class Tester {

 int x = 12;

 static Tester reset( Tester obj) {
  obj = null;
  return obj;
 }

 public static void main(String[] args) {
  Tester o1 = new Tester();
  o1 = reset(o1);
  System.out.print(o1.x);
 }
}
```

Please choose only one answer:

- 0
- 12
- Compilation error
- NullPointerException is thrown
- Another type of exception is thrown

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4.1.12. 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?

```
public class Tester {

 final short s = 12; // Line 3

 static void swap( Tester obj) {
  obj.s = 11; // Line 6
 }

 public static void main(String[] args) {
  final Tester obj1 = new Tester();
  swap(obj1);
  System.out.print(obj1.s); // Line 12
 }

}
```

Please choose only one answer:

- 11
- 12
- Compilation error at line 3
- Compilation error at line 6
- Compilation error at line 12

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4.1.13. What is the output for following program?

Author: Kishor Shamra

What is the output for following program?

```
public class SomeClass {

 static int i ;

 private static int increment(int i) {
  return ++i;
 }

 public SomeClass() {
  i = 1;
 }


 public static void main(String[] args) {
  System.out.print(i);
  System.out.print( increment(i));
            System.out.print(i);
 }
}
```

Please choose only one answer:

- 000
- 012
- 010
- compilation error

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4. Chapter: Wrappers and Autoboxing

1. Wrappers and Autoboxing Questions

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4.1.1. 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?

```
public class Tester {

  public static void main(String[] args) {

      Integer sum1 = 125; //line 1
      int sum2 =  125; //line 2

      System.out.print(sum1.equals(sum2)); //line 3
      System.out.print(sum2.equals(sum1)); //line 4
      System.out.print(sum1==sum2); //line 5
   }
}
```

Please choose only one answer:

- Compilation error at line 3
- Compilation error at line 4
- truetruefalse
- truetrueture

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4.1.2. Which, inserted independently at // insert code here , will compile...

Author: JavaChamp Team

Which, inserted independently at // insert code here , will compile? (choose four)

```
public class Tester {

 // insert code here

 public static void main(String[] args) {
  calculate(12);
 }

}
```

Please choose all the answers that apply:

- static void calculate(Double i) {}
- static void calculate(Integer i) {}
- static void calculate(int i) {}
- static void calculate(int... i) {}
- static void calculate(Integer... i) { }

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4.1.3. Given that Long and Integer extend Number, what is the result of co...

Author: Yasser Ibrahim

Given that Long and Integer extend Number, what is the result of compiling and running the following code?

```
public class Tester {

 public static void main(String[] args) {

   Number x = 12; // Line 5
   Number y = (Long) x; // Line 6
   System.out.print(x+""+y); // Line 7

 }

}
```

Please choose only one answer:

- 1212
- Compilation error at line 5
- Compilation error at line 6
- Compilation error at line 7
- An exception is thrown at run time

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4.1.4. What causes the compilation to fail?

Author: JavaChamp Team

What causes the compilation to fail?

```
public class Tester {
 public static void main(String[] args) {
  Long var = (long) 999; // Line 3
  long x1 = var.longValue(); // Line 5
  double x2 = var.longValue(); // Line 7
  double x3 = (double) var.longValue(); // Line 9
  Double x4 = Long.valueOf("999"); // Line 11
  Number x5 = Integer.parseInt("999"); // Line 13
  Long x6 = Integer.parseInt("999"); // Line 15
 }
}
```

Please choose all the answers that apply:

- Line 3
- Line 5
- Line 7
- Line 9
- Line 11
- Line 13
- Line 15

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4.1.5. Given the following code fragment, what is true about the following...

Author: Yasser Ibrahim

Given the following code fragment, what is true about the following System.out statements?

```
public class Tester {

 public static void main(String[] args) {
  Integer[][] arr1 = { { 1, 2 }, { 3, 4 } };
  Number[] arr2 = arr1[0];
  int x = 1;

  System.out.print(arr1[0][0] == 1);
  System.out.print(arr2[0] == x);
  System.out.print(x instanceof Integer);
  System.out.print(arr1[1][0] > (Integer) arr2[0]);
 }

}
```

Please choose only one answer:

- All statements will compile
- Only one will compile and will print true
- Only two statements will compile and both will print ture
- Only three statements will compile, only two of them will print true

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4.1.6. what will be the output when attempt to compile and execute this code:

Author: Pankaj Gupta

what will be the output when attempt to compile and execute this code:

```
class Test{
public static void main(String arg[])
{
Number n=10;
int i=10;
System.out.println(n==i);
}}
```

Please choose only one answer:

- true
- false
- compile time error
- run time exception

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4.1.7. What is the output ?

Author: Nikhil Kumar

What is the output ?

```
class BoxVar{

      static void call(Integer... i){
          System.out.println("hi"+i);
      }
      static void call(int... i ){
          System.out.println("hello"+i);
      }
      public static void main(String... args){
                  call(10);
    }
}
```

Please choose only one answer:

- compilation fails
- 10

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

Author: Nikhil Kumar

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

```
class ExamDemo2{
 static Byte b;
 public static void main(String [] args){
     b=10;
  b+=10;
  System.out.println(b);
 }
}
```

Please choose only one answer:

- Compilation Fails
- 20
- Run Time Error

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4.1.9. What is the correct output?

Author: MrDick

What is the correct output?

```
class  Test {

static void go(int z){
    System.out.println("int");
}

static void go(Object z){
    System.out.println("Object");
}

static void go(Double z){
    System.out.println("Double");
}

static void go(Number z){
    System.out.println("Number");
}

 public static void main(String... args) {

                Integer i = 6;
                go(i);
       }
}
```

Please choose only one answer:

- "Number"
- "Double"
- "Object"
- "int"

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4.1.10. What is the output of the following sequence?

Author: Cosmin Bolocan

What is the output of the following sequence?

```
public static void main(String[] args) {
    int i1 = 120;
    int i2 = 180;
    Integer in1 = Integer.valueOf(i2);
    Integer in2 = Integer.valueOf(i2);
    System.out.print(in1==in2);
    in1 = Integer.valueOf(i1);
    in2 = Integer.valueOf(i1);
    System.out.print(in1==in2);
}
```

Please choose only one answer:

- falsefalse
- falsetrue
- truefalse
- truetrue

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4. Chapter: Garbage Collection

1. Garbage Collection Questions

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4.1.1. How many objects are eligible for garbage collection after executin...

Author: JavaChamp Team

How many objects are eligible for garbage collection after executing line 7?

```
public class Tester {

  public static void main(String[] args) {

    Integer x = new Integer(3000);
    Integer y = new Integer(4000);
    Integer z = new Integer(5000);

    Object a = x;
    x = y;
    y = z;
    z = null; //line 7
   }
}
```

Please choose only one answer:

- 0
- 1
- 2
- 3

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4.1.2. What can be inserted at // insert code here, to make object created...

Author: Yasser Ibrahim

What can be inserted at // insert code here, to make object created at line 5 eligible for garbage collection?

```
public static void main(String[] args) {
  Integer[] arr = new Integer[3];
  arr[0] = new Integer("3"); // Line 5
  Integer x = arr[0];
  // insert code here
}
```

Please choose only one answer:

- arr[0] = null;
- x = null;
- arr = null; x = new Integer(450);
- All of the above

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4.1.3. An object is subject to garbage collection in java :

Author: JavaChamp Team

An object is subject to garbage collection in java :

Please choose only one answer:

- when the program is at a point of execution that is out the scope of the object
- when the object is set to null
- when the object becomes unreachable

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4. Chapter: Overriding and Overloading

1. Overriding and Overloading Questions

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4.1.1. What modification is necessary to produce the following output : S...

Author: Yasser Ibrahim

What modification is necessary to produce the following output : SubType

```
class Type {
 public Object getTypeName(){
  return "Type";
 }
}

class SubType extends Type {
 public String getTypeName(){//line 8
  return "SubType";
 }
}

public class Tester {

 public static void main(String[] args) {
  Type first = new SubType(); //line 16
  System.out.println(first.getTypeName()); //line 17
 }
}
```

Please choose only one answer:

- No modification is needed
- At line 8 change ´the return type from String to Object to be a correct overloading of getTypeName()
- At line 16 change Type to SubType
- At line 17 cast first.getTypeName() to String

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4.1.2. 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?

```
class Base {
 public final int getNext(int i) {
  return ++i;
 }
}

public class Derived extends Base {

 public int getNext(int i) {
  return i++;
 }

 public static void main(String[] args) {
  int result = new Derived().getNext(3);
  System.out.print(result);
  result = new Base().getNext(3);
  System.out.print(result);
 }

}
```

Please choose only one answer:

- 33
- 34
- 44
- 43
- a compilation error

Check the answer of this question online on QuizOver.com:
Question: Can override java final method?
Permalink: http://www.quizover.com/pdf/can-override-java-final-method

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4.1.3. Which statement(s), inserted independently at // insere code here, ...

Author: JavaChamp Team

Which statement(s), inserted independently at // insere code here, will compile?

```
class Creature {
 Creature getIt() {
  return this;
 }
}

class Bird extends Creature {
 // insere code here

}

class Falcon extends Bird {
}
```

Please choose all the answers that apply:

- Creature getIt() { return this;}
- private Falcon getIt() { return new Falcon();}
- Falcon getIt() {return this;}
- public Bird getIt() {return this;}
- Creature getIt(Creature c) {return this;}

Check the answer of this question online on QuizOver.com:
Question: Overriding rules in java
Permalink: http://www.quizover.com/pdf/overriding-rules-in-java

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4.1.4. 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?

```
public class Tester {

 static void call(Long x, Long y) {
  System.out.print("Long x, Long y");
 }

 static void call(int... x) {
  System.out.print("int... x");
 }

 public static void main(String[] args) {
  int val = 3;
  call(val, val);
 }
}
```

Please choose only one answer:

- Long x, Long y
- int... x
- Compilation error
- An exception is thrown at run time

Check the answer of this question online on QuizOver.com:
Question: var-args vs widening vs autoboxing in java
Permalink: http://www.quizover.com/pdf/varargs-vs-widening-vs-autoboxing-in-java

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4.1.5. 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?

```
public class Tester {

 static void call(Long x, Long y) {
  System.out.print("Long x, Long y");
 }

 static void call(int... x) {
  System.out.print("int... x");
 }

 static void call(Number x, Number y) {
  System.out.print("Number x, Number y");
 }

 public static void main(String[] args) {
  int val = 3;
  call(val, val);
 }
}
```

Please choose only one answer:

- Long x, Long y
- int... x
- Number x, Number y
- Compilation error
- An exception is thrown at run time

Check the answer of this question online on QuizOver.com:
Question: var-args vs autoboxing vs widening in java
Permalink: http://www.quizover.com/pdf/varargs-vs-autoboxing-vs-widening-in-java

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4.1.6. Which, inserted independently at //insert overridden call() here, w...

Author: JavaChamp Team

Which, inserted independently at //insert overridden call() here, will represent an overridden call() and compile with no error?

```
class Base {
  void call() throws IllegalArgumentException {
 }
}
public class Derived extends Base {
   //insert overridden call() here
}
```

Please choose all the answers that apply:

- public void call() throws IllegalArgumentException {}
- void call() throws IllegalArgumentException,FileNotFoundException {}
- void call() throws RuntimeException {}
- void call() throws IllegalArgumentException,RuntimeException { }
- private void call() {}

Check the answer of this question online on QuizOver.com:
Question: How to override method with exceptions in java?
Permalink: http://www.quizover.com/pdf/how-to-override-method-with-exceptions-in-java

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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?

```
class Base {
 public void method(final int x) {
  System.out.print("Base");
 }
}

public class Derived extends Base {

 public void method(int x) { // line 1
  System.out.print("Derived");
 }

 public static void main(String[] args) {
  Base b = new Derived();
  b.method(3);
 }

}
```

Please choose only one answer:

- will compile fine and wil print "Derived"
- will compile fine and wil print "Base"
- Won't compile because of line 1.Can be corrected by marking x as final,then the output will be "Derived"
- Won't compile because of line 1.Can be corrected by marking x as final,then the output will be "Base"

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Question: final parameters when overriding
Permalink: http://www.quizover.com/pdf/final-parameters-when-overriding

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4.1.8. What is the o/p of the given code?

Author: Abhishek Sawant

What is the o/p of the given code?

```
class Ret{
 public long tryIt(){
   long num = 25;
   return num;    // $1
 }
}

class ReturnType extends Ret{
 public long tryIt(){
  char ch = 'a';
  long num = 50;
  return ch;   // $2
 }

 public static void main(String []args){
  Ret r = new ReturnType();        // $3
  System.out.println(r.tryIt());  // $4
 }
}
```

Please choose only one answer:

- a) 25
- b) 50
- c) Compilation Error at $2
- d) Compilation Error at $3
- e) Runtime Exception at $4
- f) None of the above

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Question: valid return types in overriding in java
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4.1.9. o/p of this program is 35. Which method executes, ; whether it is m...

Author: Abhishek Sawant

o/p of this program is 35. Which method executes, ; whether it is method Overloading or method Overriding?

```
class BaseI{
    public int doSum(short a, short b){  // #1
     return(a+b);
    }
}


public class DerivedI extends BaseI{
    public int doSum(int a,short b){ // #2
     return(a+b);
    }

    public int doSum(short a, short b){ // #3
  return(a+b);
 }

    public static void main(String []args){
     DerivedI d = new DerivedI();
     short x =15;
     short y =20;
     System.out.println(d.doSum(x,y));
    }
}
```

Please choose only one answer:

- a) #1 ; superclass method. No overloading or overriding
- b) #2 ; overriding
- c) #2 ; overloading
- d) #3 ; overriding
- e) #3 ; overloading
- f) None of the above

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4.1.10. What will be the output :

Author: Pankaj Gupta

What will be the output :

```
class MySuper
{
MySuper(){disp();}
void disp(){System.out.println("superclass");}
}
class MySub extends MySuper
{
double i=Math.ceil(8.4f);
public static void main(String arg[])
{
MySuper obj= new MySub();
obj.disp();
}
void disp(){System.out.println(i);}
}
```

Please choose only one answer:

- The program displays "superclass" followed by "9.0" as an output.
- The program displays "superclass" followed by "superclass" as an output.
- The program displays "9.0" followed by "9.0" as an output.
- The program displays "0.0" followed by "9.0" as an output.

Check the answer of this question online on QuizOver.com:
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Permalink: http://www.quizover.com/pdf/java-overriding-the-flow-of-control

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4.1.11. What is the result of compiling and running this program ?If compil...

Author: Nikhil Kumar

What is the result of compiling and running this program ?If compiles successfully assume "java Dont" at command line

```
class Test
{
 Test(){
  System.out.println("Hello");
 }
 public void showItem(){

 }
}
abstract class A extends Test
{
  A(){
  System.out.println("Hi everyOne");
   }
  abstract public void showItem();
}
class Dont extends A
{
 public void showItem(){
 }
 public static void main(String... args){
  new Dont();
 }
}
```

Please choose only one answer:

- Compile time error
- an exception may be thrown
- Hello
  Hi everyOne

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4.1.12. Given the code. What is the result?

Author: Robin Singh

Given the code. What is the result?

```
class Hotel {
    public int bookings;
    public void book() {
        bookings++;
    }
}

public class SuperHotel extends Hotel {
    public void book() {
        bookings--;
    }

    public void book(int size) {
        book();
        super.book();
        bookings += size;
    }

    public static void main(String args[]) {
        Hotel hotel = new SuperHotel();
        hotel.book(2);
        System.out.print(hotel.bookings);
    }
}
```

Please choose only one answer:

- Compilation fails.
- An exception is thrown at runtime.
- 0
- 1
- 2
- -1

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4. Chapter: Collections

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 on QuizOver.com:
Question: How to use java headMap?
Permalink: http://www.quizover.com/pdf/how-to-use-java-headmap

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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("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

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Question: What does java headMap() do?
Permalink: http://www.quizover.com/pdf/what-does-java-headmap-do

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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

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Permalink: http://www.quizover.com/pdf/how-to-sort-java-treeset

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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 on QuizOver.com:
Question: how to override equals() in java?
Permalink: http://www.quizover.com/pdf/how-to-override-equals-in-java

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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

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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

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Question: inserting into a TreeSet in java
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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 on QuizOver.com:
Question: using binarySearch with an array in java
Permalink: http://www.quizover.com/pdf/using-binarysearch-with-an-array-in-java

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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 on QuizOver.com:
Question: searching an array using binarySearch in java
Permalink: http://www.quizover.com/pdf/searching-an-array-using-binarysearch-in-java

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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

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Question: binarySearch in java
Permalink: http://www.quizover.com/pdf/binarysearch-in-java

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4.1.10. 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.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

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Question: How to implement Comparable in java
Permalink: http://www.quizover.com/pdf/how-to-implement-comparable-in-java

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4.1.11. 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.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.

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

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4.1.12. 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.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 on QuizOver.com:
Question: inserting into a HashSet in java
Permalink: http://www.quizover.com/pdf/inserting-into-a-hashset-in-java

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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(33));
  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

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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 on QuizOver.com:
Question: TreeMap methods in java
Permalink: http://www.quizover.com/pdf/treemap-methods-in-java

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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

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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 on QuizOver.com:
Question: tailMap, headMap and subMap in java
Permalink: http://www.quizover.com/pdf/tailmap-headmap-and-submap-in-java

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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(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]

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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();

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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()+" ");

  }

 }
}
```

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

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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

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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

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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
- 1

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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

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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

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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<?>();

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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

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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

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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

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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

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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

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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();

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4.1.11. Will the following code compile?

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

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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");

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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>();

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4. Chapter: Formatting

1. Formatting Questions

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4.1.1. Which of the following statements produces the output 3 + 8 ?

Author: Yasser Ibrahim

Which of the following statements produces the output 3 + 8 ?

```
public class Tester {

 public static void main(String[] args) {
  int x = 8;
  int y = 3;

  System.out.printf("%d + %d \n", y, x); // stmt1
  System.out.printf("%f + %f \n", (float) y, (float) x);// stmt2
  System.out.printf("%d + %d \n", x, y);// stmt3
  System.out.format("%2$d + %1$d", x, y);// stmt4
 }
}
```

Please choose all the answers that apply:

- Statement 1
- Statement 2
- Statement 3
- Statement 4

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4.1.2. Which of the following is instantiated using a factory method ?

Author: Yasser Ibrahim

Which of the following is instantiated using a factory method ?

Please choose all the answers that apply:

- Date
- Calendar
- Locale
- DateFormat
- NumberFormat

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4. Chapter: I/O

1. I/O Questions

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4.1.1. Which of the following statements is a correct instantiation of Pr...

Author: Yasser Ibrahim

Which of the following statements is a correct instantiation of PrintWriter?

Please choose all the answers that apply:

- PrintWriter writer = new PrintWriter("file.dat");
- PrintWriter writer = new PrintWriter(new BufferedWriter("file.dat"));
- PrintWriter writer = new PrintWriter(new FileWriter("file.dat"));
- PrintWriter writer = new PrintWriter(new File("file.dat"));

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4.1.2. At what line in the following program the file "data.txt" will be c...

Author: Yasser Ibrahim

At what line in the following program the file "data.txt" will be created in the file system?

```
import java.io.BufferedWriter;
import java.io.File;
import java.io.FileWriter;
import java.io.IOException;

public class Tester {

 public static void main(String[] args) {
     try {
   File file = new File("data.txt");// line 5
   file.createNewFile(); // line 6
   FileWriter fr = new FileWriter(file); // line 7
   BufferedWriter br = new BufferedWriter(fr); // line 8
   br.append("javachamp");
   br.flush();
   br.close(); // line 11
  } catch (IOException e) {
   e.printStackTrace();
  }
 }
}
```

Please choose only one answer:

- Line 5
- Line 6
- Line 7
- Line 8
- Line 11

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4.1.3. Given the following code segment enclosed within a try/catch block,...

Author: Yasser Ibrahim

Given the following code segment enclosed within a try/catch block, what valid Exception type can be catched causing no compilation error?

```
try {
 File file = new File("file.dat");
 file.createNewFile();

} catch (
        // INSERT EXCEPTION TYPE
        e) {
 e.printStackTrace();
}
```

Please choose all the answers that apply:

- Exception
- RuntimeException
- Throwable
- FileNotFoundException
- IOException

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4.1.4. Which of the following is a correct instantiation for a BufferedWri...

Author: JavaChamp Team

Which of the following is a correct instantiation for a BufferedWriter?

Please choose all the answers that apply:

- BufferedWriter bw = new BufferedWriter(new File("data.txt"));
- BufferedWriter bw = new BufferedWriter(new FileWriter("data.txt"));
- BufferedWriter bw = new BufferedWriter(new PrintWriter("data.txt"));
- BufferedWriter bw = new BufferedWriter("data.txt");

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4. Chapter: Threads

1. Threads Questions

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4.1.1. What is considered an impossible output of running the following pr...

Author: JavaChamp Team

What is considered an impossible output of running the following program?

```
public class Tester extends Thread {

 int code = 9;

 public void run() {
  this.code = 7;
 }

 public static void main(String[] args) {

  Tester thread = new Tester();
  thread.start();

  for (int i = 0; i < 5; i++) {
   System.out.print(thread.code);
  }

 }

}
```

Please choose only one answer:

- 99777
- 97777
- 77777
- 79999
- 99999

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

Author: JavaChamp Team

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

```
public class Tester {

 public void validate() {
  int i = 0;
  while (++i < 3) {
   try {
    wait();
   } catch (InterruptedException e) {
    e.printStackTrace();
   }
   System.out.print(i);
  }
 }

 public static void main(String[] args) {
  new Tester().validate();
 }

}
```

Please choose only one answer:

- Compilation error because of calling wait() outside a synchronized block
- Compilation error because IllegalMonitorStateException is not handled
- At runtime, it throws an IllegalMonitorStateException when trying to wait
- 12

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4.1.3. 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?

```
public class Tester extends Thread {

 public void run() {
  System.out.print("run");
 }

 public static void main(String[] args) {

  Tester thread = new Tester();

  new Thread(thread).start();

  new Thread(thread).start();

 }
}
```

Please choose only one answer:

- Compilation error, can't invoke start() twice
- runrun
- IllegalThreadStateException will be thrown because of the second invoke to start()
- run

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4.1.4. What could be a part of the output of compiling and running the fol...

Author: JavaChamp Team

What could be a part of the output of compiling and running the following code?

```
public class Tester extends Thread {

 public void run() {
  System.out.println("run");
 }

 public static void main(String[] args) {
  Thread thread = new Tester();
  thread.run();
  thread.start();
  thread.start();

 }
}
```

Please choose all the answers that apply:

- Compilation error
- Prints "run" twice, not necessarily consecutively
- InterruptedException will be thrown
- IllegalThreadStateException will be thrown
- Prints "run" three times

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4.1.5. Which of the following methods defined in Thread class are static?

Author: JavaChamp Team

Which of the following methods defined in Thread class are static?

Please choose all the answers that apply:

- sleep()
- start()
- yield()
- join()
- run()

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4.1.6. Which methods are defined in calss Object?

Author: Yasser Ibrahim

Which methods are defined in calss Object?

Please choose all the answers that apply:

- wait()
- sleep()
- toString()
- finalize()
- notify()

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4.1.7. When a class implements interface Runnable, it must provide impleme...

Author: Yasser Ibrahim

When a class implements interface Runnable, it must provide implementation for method start():

Please choose only one answer:

- False
- True

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4.1.8. A thread that invokes the wait() method of an object, must owns th...

Author: JavaChamp Team

A thread that invokes the wait() method of an object, must owns the lock of the object.

Please choose only one answer:

- True
- False

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4.1.9. How can a thread own the lock of an object?

Author: Yasser Ibrahim

How can a thread own the lock of an object?

Please choose all the answers that apply:

- When the thread executes a synchronized instance method of that object
- When the thread executes a synchronized statement block in the object
- When the thread calls wait() on this object

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4.1.10. Which of the following Thread instantiations are correct?

Author: Yasser Ibrahim

Which of the following Thread instantiations are correct?

```
public static void main(String[] args) {
    new Thread(); // line 1
    new Thread("myThread"); // line 2
    new Thread(new Long(14)); // line 3
    new Thread(new Runnable(){public void run(){}}); // line 4
    Thread.getInstance(); // line 5
    }
```

Please choose all the answers that apply:

- line 1
- line 2
- line 3
- line 4
- line 5

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4.1.11. Thread objects are created by:

Author: Yasser Ibrahim

Thread objects are created by:

Please choose all the answers that apply:

- direct instantiation from java.lang.Thread class
- instantiation from a class which implements the java.lang.Thread class
- instantiation a Runnable object (from a class which implements the Runnable interface)
- instantiation a Runnable object (from a class which implements the Runnable interface) and passing this Runnable object to a Thread constructor.

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4.1.12. When creating a thread by implementing Runnable interface :

Author: JavaChamp Team

When creating a thread by implementing Runnable interface :

Please choose only one answer:

- you must implement the method run()
- you can override run(), but in case you don't you'll be restricted to the provided run() method, which contains no code and does nothing

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4.1.13. How many times the statement "we are painting" would be printed in ...

Author: Yasser Ibrahim

How many times the statement "we are painting" would be printed in this program?

```
public class Test{

 public static void main(String[] args) {

  Painter painter1 = new Painter();
  painter1.start();

  Painter painter2 = new Painter();
  painter2.start();

 }
}

class Painter implements Runnable {

 public void run() {
  System.out.println("we are painting");
 }
}
```

Please choose only one answer:

- two times
- zero times
- the program will not compile

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4.1.14. What is the possible output of compiling and running the following ...

Author: JavaChamp Team

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

```
public class Test {

 public static void main(String[] args) {
  Thread request1 = new Thread(new InternetRequest (),"request#1 ");
  Thread request2 = new Thread(new InternetRequest (),"request#2 ");

  request1.start();
  request2.start();

 }

}

class InternetRequest implements Runnable {


 public void run() {
  System.out.print(Thread.currentThread().getName());

 }
}
```

Please choose all the answers that apply:

- request#2 request#1
- request#1 request#2
- an InterruptedException is thrown
- request#1 request#1

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

Author: JavaChamp Team

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

```
class Writer extends Thread {
 public void run() {
  System.out.println("Writer run");
 }

 public static void main(String[] args) {
  Runnable c = new Writer();
  Thread t = new Thread(c);
  t.run();
 }

}
```

Please choose only one answer:

- Compilation error
- compiles fine, but no output produced
- compiles fine and prints "Writer run"
- compiles fine but throws an exception

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

Author: JavaChamp Team

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

```
public class Test extends Thread {
 static int count = 0;

 public static void main(String argv[]) {
  Test t = new Test ();
  t.increment(count);
  t.start();
  Thread.sleep(1000);
  System.out.println(count);
 }

 public void increment(int count) {
  ++count;
 }

 public void run() {
  count = count + 5;
 }
}
```

Please choose only one answer:

- 5
- 6
- Compilation error

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4.1.17. What is the could be the output of compiling and running the follow...

Author: Yasser Ibrahim

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

```
public class Test extends Thread {
 static int count = 0;

 public static void main(String argv[]) throws InterruptedException {
  Test t = new Test ();
  t.increment(count);
  t.start();
  Thread.sleep(1000);
  System.out.println(count);
 }

 public void increment(int count) {
  ++count;
 }

 public void run() {
  count = count + 5;
 }
}
```

Please choose all the answers that apply:

- 5
- 6
- Compilation error
- An InterruptedException may be thrown

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4.1.18. What is the possible output of running this program once as it is a...

Author: Yasser Ibrahim

What is the possible output of running this program once as it is and once by marking swim() synchronized?

```
class Swimmer implements Runnable{
 String name ;
 Swimmer(String name){
  this.name = name;
 }
 public void run() {
  Test.swim(name);
 }

}

public class Test {

 public static void swim(String name) {
  System.out.print(name);
  System.out.print(name);

 }
 public static void main(String[] args) {
  new Thread(new Swimmer("Tom")).start();
  new Thread(new Swimmer("Hanks")).start();
 }
}
```

Please choose all the answers that apply:

- as it is, a possible output is TomHanksTomHanks
- as it is, a possible output is TomHanksHanksTom
- by synchronizing swim(), a possible output is TomHanksHanksTom
- by synchronizing swim(), a possible output is HanksHanksTomTom
- by synchronizing swim(), a possible output is TomHanksTomHanks

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4.1.19. What are the possible outputs of running this program once as it is...

Author: Yasser Ibrahim

What are the possible outputs of running this program once as it is, and second with marking swim() synchronized?

```
class Swimmer implements Runnable{
 String name ;
 Swimmer(String name){
  this.name = name;
 }
 public void run() {
  new  Test().swim(name);
 }

}

public class Test {

 public void swim(String name) {
  System.out.print(name);
  System.out.print(name);

 }
 public static void main(String[] args) {
  new Thread(new Swimmer("Tom")).start();
  new Thread(new Swimmer("Hanks")).start();
 }
}
```

Please choose all the answers that apply:

- as it is, the output is always consecutive two Tom then two Hanks or consecutive two Hanks then two Tom
- as it is, the output is undetermined. It is in any order of two Tom and two Hanks
- by synchronizing swim(), the output is always consecutive two Tom then two Hanks or consecutive two Hanks then two Tom
- by synchronizing swim(), the output is undetermined. It is in any order of two Tom and two Hanks

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4.1.20. What are the possible outputs of running this program once as it is...

Author: JavaChamp Team

What are the possible outputs of running this program once as it is, and second with marking swimIn() synchronized?

```
class Swimmer implements Runnable {
 String name;
 Pool pool;

 Swimmer(String name, Pool pool) {
  this.name = name;
  this.pool = pool;
 }

 public void run() {

  pool.swimIn(name);

 }

}

public class Pool {

 public void swimIn(String name) {
  System.out.print(name);
  System.out.print(name);

 }

 public static void main(String[] args) {
  Pool pool = new Pool();
  new Thread(new Swimmer("Tom", pool)).start();
  new Thread(new Swimmer("Hanks", pool)).start();
 }

}
```

Please choose all the answers that apply:

- as it is, the output is always two consecutive "Tom" followed by two consecutive "Hanks" or viceversa
- as it is, the output could be TomHanksTomHanks
- by synchronizing swimIn(), the output is always two consecutive "Tom" followed by two consecutive "Hanks" or viceversa
- by synchronizing swimIn(), the output could be TomHanksTomHanks
- by synchronizing swimIn(), the output could be TomHanksHanksTom

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4.1.21. What is the possible result of compiling and running the following ...

Author: Yasser Ibrahim

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

```
class Swimmer implements Runnable {
 String name;
 Pool pool;

 Swimmer(String name, Pool pool) {
  this.name = name;
  this.pool = pool;
 }

 public void run() {

  pool.swimIn(name);

 }

}

public class Pool {

 public void swimIn(String name) {
  synchronized {
   System.out.print(name);
   System.out.print(name);
  }

 }

 public static void main(String[] args) {
  Pool pool = new Pool();
  new Thread(new Swimmer("Tom", pool)).start();
  new Thread(new Swimmer("Hanks", pool)).start();
 }

}
```

Please choose only one answer:

- TomTomHanksHanks
- HanksHanksTomTom
- HanksTomHanksTom
- undetermined order
- compilation error

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4.1.22. What is the possible result of compiling and running the following ...

Author: JavaChamp Team

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

```
public class Test implements Runnable {
 Integer id;

 public static void main(String[] args) {
  new Thread(new Test()).start();
  new Thread(new Test()).start();
 }

 public void run() {
  press(id);
 }

 synchronized void press(Integer id) {
  System.out.print(id.intValue());
  System.out.print((++id).intValue());
 }
}
```

Please choose only one answer:

- 0101
- 0011
- -10-10
- -1-100
- compilation error
- an exception is thrown at run time

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4.1.23. What is the possible result of compiling and running the following ...

Author: Yasser Ibrahim

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

```
public class Test implements Runnable {
 Integer id = 0;

 public static void main(String[] args) {
  new Thread(new Test()).start();
  new Thread(new Test()).start();
 }

 public void run() {
  press(id);
 }

 synchronized void press(Integer id) {
  System.out.print(id.intValue());
  System.out.print((++id).intValue());
 }
}
```

Please choose only one answer:

- 1010
- 0101
- 0123
- compilation error
- an exception is thrown at run time

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4.1.24. What is ture?

Author: JavaChamp Team

What is ture?

```
public class Test implements Runnable {

 public static void main(String[] args) throws InterruptedException {
  Test test = new Test();
  Thread t= new Thread(test);
  t.start();
  t.join();
  System.out.print("main");
 }

 public void run() {
  System.out.print("run");
 }

}
```

Please choose only one answer:

- the output could be "mainrun"
- the output could be "runmain"
- the output could be "run" then an exception is thrown at run time
- compilation error

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4.1.25. What is true?

Author: JavaChamp Team

What is true?

```
public class Test implements Runnable {

 public static void main(String[] args) {
  Test test = new Test();
  Thread thread = new Thread(test);
  thread.start();
  thread.join();
  System.out.print("main");
 }

 public void run() {
  System.out.print("run");
 }

}
```

Please choose only one answer:

- the program could prints runmain
- the program could prints mainrun
- the compilation fails
- an exception is thrown at run time

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4.1.26. What are the possible results of compiling and running the followin...

Author: Yasser Ibrahim

What are the possible results of compiling and running the following code?

```
public class Test implements Runnable {

 int id;

 Test(int id) {
  this.id = id;
 }

 public static void main(String[] args) throws InterruptedException {
  Thread thread1 = new Thread(new Test(1));
  Thread thread2 = new Thread(new Test(2));
  thread1.run();
  thread2.start();
  System.out.print("main");
 }

 public void run() {
  System.out.print(id);
 }

}
```

Please choose all the answers that apply:

- 12main
- 21main
- 2main1
- 1main2
- compilation error, cannot invoke run() directly on thread1
- compilation error, cannot invoke start() directly on thread2

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4.1.27. What does sleep(long millis) in Thread class do?

Author: JavaChamp Team

What does sleep(long millis) in Thread class do?

Please choose only one answer:

- causes the thread, which sleep is invoked on, to sleep (temporarily cease execution) for the specified number of milliseconds
- causes the currently executing thread to sleep (temporarily cease execution) for the specified number of milliseconds
- causes the main() thread to sleep for the specified number of milliseconds
- causes the currently executing thread to wait(temporarily cease execution) for the specified number of milliseconds then brings it back to run.

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4.1.28. What are the possible results of compiling and running the followin...

Author: JavaChamp Team

What are the possible results of compiling and running the following code?

```
public class Test extends Thread {
 int id;
 Test(int id) {
  this.id = id;
  start();
 }
 public static void main(String[] args)  {

  Thread t = new Thread(new Test(2));
  t.start();
  System.out.print("main");
 }
 public void run() {
  System.out.print(id);
 }
}
```

Please choose all the answers that apply:

- main22
- 0main2
- main02
- 2main2
- compilation error for calling start twice

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4.1.29. What are the possible results of compiling and running the followin...

Author: JavaChamp Team

What are the possible results of compiling and running the following code?

```
public class Test {
    public static void main(String[] args) throws InterruptedException {
        Runnable t1 = new Runnable() {
            public void run() {
                try {
                    System.out.print("t1before");
                    Thread.sleep(100);
                    System.out.print("t1after");
                } catch (InterruptedException e) {
                }
            }
        };

        final Thread t2 = new Thread() {
            public void run() {
                try {
                    System.out.print("t2before");
                    wait();
                    System.out.print("t2after");
                } catch (InterruptedException e) {
                }
            }
        };
        t2.start();
        new Thread(t1).start();
    }
}
```

Please choose all the answers that apply:

- t1before may be part of th output
- t1after may be part of th output
- t2before may be part of th output
- t2after may be part of th output
- an IllegalMonitorStateException will be thrown at run time

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4.1.30. What is the possible results of compiling and running the following...

Author: JavaChamp Team

What is the possible results of compiling and running the following code?

```
public class Test {

 static Runnable t1 = new Runnable() {

  public void run() {
   try {
    System.out.print("t1before");
    Thread.sleep(100);
    System.out.print("t1after");
   } catch (InterruptedException e) {
   }
  }

 };

 static Thread t2 = new Thread() {
  public void run() {
   try {
    System.out.print("t2before");
    synchronized (this) {
     wait();
    }
    System.out.print("t2after");
   } catch (InterruptedException e) {
   }
  }
 };

 public static void main(String[] args) throws InterruptedException {
  new Thread(t1).start();
  t2.start();
 }

}
```

Please choose all the answers that apply:

- t1before may be part of the output
- t1after may be part of the output
- t2before may be part of the output
- t2after may be part of the output
- compilation fails
- IllegalMonitorStateException is thrown at run time

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4.1.31. The idea of this program is to allow two workers to build a wall (w...

Author: Yasser Ibrahim

The idea of this program is to allow two workers to build a wall (which consists of bricks and cement) , given the following code, what necessarily modifications are needed to build a wall by alternating between bricks and cement (brickcementbrickcement...) and to avoid as possible, one worker monopolizing the work alone ? (choose all what apply)

```
class Worker extends Thread {
 Contract contract;

 Worker(Contract contract) {
  this.contract = contract;
 }

 public void run() {
  contract.work();
 }
}

public class Contract {

 StringBuilder wall = new StringBuilder("brick");
 boolean isCementLastAdded = false;

 public void putBrick() {
  if (isCementLastAdded ;; !isWallDone()) {
   wall.append("brick");
   isCementLastAdded = false;
  }

 }

 public void putCementLayer() {
  if (!isCementLastAdded ;; !isWallDone()) {
   wall.append("cement");
   isCementLastAdded = true;

  }

 }

 public boolean isWallDone() {
  return wall.length() >= 100;
 }

 public void work() {
  while (!isWallDone()) {
   putCementLayer();
   putBrick();
  }
 }

 public static void main(String[] args) {
  Contract contract = new Contract();
  new Worker(contract).start();
  new Worker(contract).start();

 }
```

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```
}
```

Please choose all the answers that apply:

- synchronize putBrick()
- synchronize putCementLayer()
- synchronize work()
- add Thread.sleep() after putBrick() in work() method
- synchronize isWallDone()

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4.1.32. What is the output of running the following program?

Author: Narendra

What is the output of running the following program?

```
class Tester extends Thread {
 int total;

 public static void main(String[] args) throws Exception {
  Tester t = new Tester();
  t.start();
  System.out.println("hi how are you:");
  synchronized (t) {
   System.out.println("waiting for t to complete");
   t.wait();
   System.out.println("total" + t.total);
  }
 }

 synchronized public void run() {
  for (int i = 0; i < 3; i++) {
   total = total + i;
  }
 }
}
```

Please choose only one answer:

- main thread will wait indefinitely.
- total 0 is part of the output.
- total 3 is part of the output .
- it depends upon which thread has got the cpu first .

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4.1.33. Synchronization issue

Author: Nikhil Kumar

Synchronization issue

```
class SyncDemo{
    public static void main(String... args){
        class A implements Runnable{
            public synchronized void run(){
               display();
            }
           synchronized void display(){
               for(int i=0;i<5;i++){
                    System.out.print("Hello");
                    try{
                       Thread.sleep(2000);
                    } catch(InterruptedException e){}
                    System.out.println(Thread.currentThread().getName());
               }
            }
        }

        A ob1=new A();
        A ob2=new A();
        Thread ob3=new Thread(ob1,"Saurabh");
        Thread ob4=new Thread(ob2,"Nikhil");
        ob3.start();
        ob4.start();
    }
}
```

Please choose only one answer:

- Compilation Fails
- Hello Saurabh Hello Nikhil ..... Printed in Synchronized way
- Output is Unpredictable .

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4.1.34. Which three will compile and run without exception ?

Author: BELHAUSS Imad

Which three will compile and run without exception ?

Please choose all the answers that apply:

- private synchronized object o;
- void go(){
  synchronized(){
  // code here
  }
- public synchronized void go(){
  //code here
  }
- private synchronized (this) void go(){
  //code here
  }
- void go(){
  synchronized(object.class){
  //code here
  }
  }
- void go(){
  synchronized (o){
  //code here
  }
  }

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4. Chapter: Enums

1. Enums Questions

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4.1.1. 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?

```
enum Status {
 Published(1), Rejected(2); // Line 2
 int index;  // Line 3
 Status(int i) { index = i; }
       int getIndex(){return index;} // Line 5
}

public class Tester {
  public static void main(String [] args) {
  System.out.println(Status.Published.index + Status.Rejected.index); // Line 10
  }
}
```

Please choose only one answer:

- Compilation error at line 2. Must be terminated by a colon ','
- Compilation error at line 3. index must be marked static
- Compilation error at line 5. must be marked public
- Compilation error at line 10, can't access index directly, must use getIndex() instead
- 3

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4.1.2. enum can be declared and defined inside :

Author: Yasser Ibrahim

enum can be declared and defined inside :

Please choose all the answers that apply:

- Another enum
- A class
- An interface
- A method

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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?

```
public class Test{

 enum BookStatus {
  PUBLISHED, DRAFT
 }

 public static void main(String[] args) {
  BookStatus s1 = BookStatus.PUBLISHED;
  BookStatus s2 = BookStatus.PUBLISHED;
  System.out.print(s1 == BookStatus.PUBLISHED);
  System.out.print(s1.equals(s2));
 }

}
```

Please choose only one answer:

- falsetrue
- truetrue
- falsefalse
- compilation error, s1 and s2 are incorrectly instantiated

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4.1.4. Find correct import statement ?

Author: Naveen Yadav

Find correct import statement ?

```
package pkg;
public enum Signal{GET , SET, GO}

========================

class Import_Enum2
{
public static void main(String... arg)
{
 for(Signal ele : Signal.values())
 {
  System.out.println(ele);
 }
}
}
```

Please choose only one answer:

- import pkg.*;
- import pkg.Signal;
- import static pkg.Signal;
- static import pkg.Signal;

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4.1.5. Which of following import statement will allow to compile code corr...

Author: Naveen Yadav

Which of following import statement will allow to compile code correctly

```
package pkg;
public enum Signal{GET , SET, GO}


class Import_Enum2
{

public static void main(String... arg)
{
 System.out.println(SET);

}
}
```

Please choose all the answers that apply:

- import static pkg.Signal.*;
- import static pkg.Signal.SET;
- import pkg.Signal;
- import static pkg.Signal;
- static import pkg.Signal.SET;

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4.1.6. Which code, inserted at line 14, allows the Sprite class to compile?

Author: BELHAUSS Imad

Which code, inserted at line 14, allows the Sprite class to compile?

```
class Nav{
      public enum Direction { NORTH, SOUTH, EAST, WEST }
 }
public class Sprite{
// insert code here
}
```

Please choose only one answer:

- Direction d = NORTH;
- Nav.Direction d = NORTH;
- Direction d = Direction.NORTH;
- Nav.Direction d = Nav.Direction.NORTH;

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Question: java enum constructor
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4.1.7. What is the result of running the following code? .

Author: AlinaIoana Florea

What is the result of running the following code? .

```
public class Coffee
{
   CoffeeSize size;    // line 1

   public static void main(String... arg)    // line 2
   {
      enum CoffeeSize{ SMALL, NORMAL, BIG ; }    // line 3

      Coffee drink = new Coffee();
      drink.size = CoffeeSize.BIG;    // line 4

      System.out.println(drink.size);    // line 5
   }
}
```

Please choose all the answers that apply:

- big
- compile-time error on line 1
- compile-time error on line 2
- compile-time error on line 3
- run-time error on line 4

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4.1.8. Will the following code compile? .

Author: AlinaIoana Florea

Will the following code compile? .

```
static final enum AnimalSound
{
   WOOF, meow, BURBLE    // line 1
}   // line 2

strictfp enum Animal
{
   DOG(AnimalSound.woof, 4),    // line 3
   CAT(MEOW, 4),    // line 4
   FISH(AnimalSound.BURLE)    // line 5
   {
      public int getNrOfLegs()
      {
         return 1;
      }
   };   // line 6

   private AnimalSound sound;
   private int nrOfLegs;

   Animal(AnimalSound sound, int nrOfLegs)
   {
      this(sound);
      this.nrOfLegs = nrOfLegs;
   }

   Animal(AnimalSound sound)
   {
      this.sound = sound;
   }

   public AnimalSound getSound()
   {
      return sound;
   }

   public int getNrOfLegs()
   {
      return nrOfLegs;
   }
};   // line 7
```

Please choose all the answers that apply:

- No, there will be a compile-time error on line 2 because of the missing semicolon(;) and on line 6 because of the present semicolon
- There will be a compile-time error on line 3 and 5
- There will be a compile-time error on line 4
- There will be a run-time error on other lines
- AnimalSound, like any top class, can be marked with only the "public", "default" or "strictfp" modifiers

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- An enum, e.g. Animal, can NOT be marked "strictfp"

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4.1.9. What will the following code output? .

Author: AlinaIoana Florea

What will the following code output? .

```
protected enum Animal {    DOG, CAT, FISH }  // line 1

public class TestEnumAnimal {
    Animal[] animals = Animal.values(); // line 2
    static Animal woofy = new Animal(); // line 3
    public static void main(String... arg) {
        System.out.println(woofy);
        for (Animal animal : animals) {  // line 4
            System.out.println(animal);
        }
    }
}
```

Please choose all the answers that apply:

- DOG
  DOG
  cat
  FIsh
- Compilation error on line 1
- Compilation error on line 2
- Compilation error on line 3
- Compilation error on line 4

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4.1.10. What's the output of the following code?

Author: AlinaIoana Florea

What's the output of the following code?

```
enum Sounds
{
   HAM_HAM, CHIP_CHIP
}

interface PlaySounds
{
   void play();
}

enum AnimalSound extends Sounds implements PlaySounds
{
   WOOF("dog"), meow("CaT"),
   BURBLE("fish")
   {
      int nrOfLegs = 1;    // line 1
   };

   public static int nrOfLegs = 4;
   private String animal;

   public getAnimal()
   {
      return animal;
   }

   AnimalSound(String animal)
   {
       this.animal = animal;
   }

   void play(){}
}

public class Test
{
   public static void main(String[] args)
   {
      for(AnimalSound sound: AnimalSound.values())
      {
         System.out.println("A " + sound.animal + " makes " + sound + " and has " + AnimalSound.nrOfLegs + "
legs.");
      }
   }
}
```

Please choose all the answers that apply:

- The enum's constants are printed in the order in which they were declared:

  A dog makes WOOF and has 4 legs.
  A CaT makes meow and has 4 legs.
  A fish makes BURBLE and has 4 legs.

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- Compilation error: an enum can not extend any class, so remove "extends Sounds" from its declaration
- Compilation error: getAnimal() from AnimalSound is missing a String return type
- Compilation error: play() is NOT correctly implemented in AnimalSound as it has a more restrictive access level of "default", should be made "public"
- Compilation error: in main() you can NOT access sound.animal because "animal" is private in AnimalSound

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4. Chapter: Data Types

1. Data Types Questions

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4.1.1. 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?

```
public class Tester {

 static void test(float x) {
  System.out.print("float");
 }

 static void test(double x) {
  System.out.print("double");
 }

 public static void main(String[] args) {
  test(99.9);
 }
}
```

Please choose only one answer:

- float
- double
- Compilation error
- Exception is thrown at run time

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4.1.2. 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?

```
public class Tester {

 static void test(float x) {
  System.out.print("float");
 }

 static void test(double x) {
  System.out.print("double");
 }

 public static void main(String[] args) {
  test((float) 99.9);
 }
}
```

Please choose only one answer:

- float
- double
- Compilation error
- Exception is thrown at run time

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4.1.3. 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?

```
public class Tester {

 static void test(float x) {
  System.out.print("float");
 }

 public static void main(String[] args) {
  test(99.9);
 }
}
```

Please choose only one answer:

- float
- Compilation fails
- An Exception is thrown at run time

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4.1.4. which of the followings are correct when tried to compile and execu...

Author: Pankaj Gupta

which of the followings are correct when tried to compile and execute the below code ?

```
class s
{
public static void main(String agr[])
{
   short s1=4;       //LINE 1
   short s2 = s1+=s1;  //LINE 2
   short s3= s1+s2;     //LINE 3
   byte b1=(byte)s1 +(byte)s2;  //LINE 4
   byte b2=(byte)((byte)s1 +(byte)(byte)s2);  //LINE 5


}}
```

Please choose all the answers that apply:

- compile time error at LINE 1
- compile time error at LINE 2
- compile time error at LINE 3
- compile time error at LINE 4
- compile time error at LINE 5
- compiles successfully.

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4.1.5. if byte b=50;
b=b*2;

Author: Shashikant Jaiswal

if byte b=50;

b=b*2;

Please choose only one answer:

- error ! can't assign an int to a byte
- b=100
- b=50

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4.1.6. What is the correct output?

Author: MrDick

What is the correct output?

```
class  Test {

 public static void main(String[] args) {
              float f = 1; // line 1
            System.out.println(++f); // line 2
 }
}
```

Please choose only one answer:

- compilation error in line 1
- compilation error in line 2
- Runtime exception
- 1
- 2.0
- 1.0

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4. Chapter: Static and init blocks

1. Static and init blocks Questions

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4.1.1. 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?

```
class Bird {

 static {
  System.out.print("static1 ");
 }

 {
  System.out.print("init3 ");
 }

 public Bird() {
  System.out.print("Bird ");
 }

 static {
  System.out.print("static2 ");
 }

}

public class Falcon extends Bird {

 Falcon(){
  System.out.print("Falcon ");
 }
 public static void main(String[] args) {
  System.out.print("main ");
  new Falcon();
 }
}
```

Please choose only one answer:

- main static1 static2 init3 Bird Falcon
- main static1 static2 Falcon init3 Bird
- main static1 static2 Falcon Bird init3
- static1 static2 main init3 Bird Falcon
- static1 static2 main Bird init3 Falcon

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4. Chapter: Serialization

1. Serialization Questions

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4.1.1. 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.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.Serializable;

class Base {
 int code = 99;

 Base() {
  code = 77;
 }
}

public class Derived extends Base implements Serializable {

 public static void main(String[] args) {
  Derived derived1 = new Derived();
  derived1.code = 88;

  try {
   FileOutputStream fos = new FileOutputStream("data.txt");
   ObjectOutputStream os = new ObjectOutputStream(fos);
   os.writeObject(derived1);
   os.close();
   FileInputStream fis = new FileInputStream("data.txt");
   ObjectInputStream is = new ObjectInputStream(fis);
   Derived derived2 = (Derived) is.readObject();
   System.out.print(derived2.code);
   is.close();
  } catch (Exception x) {
  }

 }

}
```

Please choose only one answer:

- 0
- 77
- 88
- 99
- Compilation error

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4.1.2. Given the following two classes (Address and Account), what may hap...

Author: Yasser Ibrahim

Given the following two classes (Address and Account), what may happen if you attempt to serialize an instance of Account?

```
class Address{}
class Account implements Serializable {Address address;}
```

Please choose only one answer:

- Compilation error
- Exception is thrown at run time
- Serialization will succeed correctly with no problems

Check the answer of this question online on QuizOver.com:
Question: How to serialize java class?
Permalink: http://www.quizover.com/pdf/how-to-serialize-java-class

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4.1.3. Which of the following data members of a class cannot be serialized?

Author: JavaChamp Team

Which of the following data members of a class cannot be serialized?

Please choose all the answers that apply:

- private data members
- transient data members
- static data members
- final data members

Check the answer of this question online on QuizOver.com:
Question: What variables cannot be serialized in java?
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4.1.4. 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.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.Serializable;

public class Tester implements Serializable{

 transient int x = 5;

 public static void main(String[] args) {
  Tester tester1 = new Tester();
  try {
   ObjectOutputStream os = new ObjectOutputStream(
     new FileOutputStream("data.txt"));
   os.writeObject(tester1);
   os.close();
   System.out.print(++tester1.x + " ");
   ObjectInputStream is = new ObjectInputStream(new FileInputStream(
     "data.txt"));
   Tester tester2 = (Tester) is.readObject();
   is.close();
   System.out.println(tester2.x);
  } catch (Exception x) {
   System.out.println("Exception thrown");
  }
 }

}
```

Please choose only one answer:

- 5 5
- 6 5
- 6 0
- An exception is thrown

Check the answer of this question online on QuizOver.com:
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4.1.5. Which of the following is the correct output:

Author: Juan Pablo

Which of the following is the correct output:

```
import java.io.*;

class Class {
 {System.out.print("a1-");}

 public Class() {
  System.out.print("a-");
 }

 static {System.out.print("s1-");}
}

class SubClass extends Class implements Serializable {

 {System.out.print("b1-");}

 public SubClass() {
  System.out.print("b-");
 }

 static {System.out.print("s2-");}
}

public class TestSerializable {

 public static void main(String[] args) {

  SubClass subClass = new SubClass();

  ObjectOutputStream oos = null;
  ObjectInputStream ois = null;
  try{
   oos = new ObjectOutputStream(new FileOutputStream("myFile"));
   oos.writeObject(subClass);
   ois = new ObjectInputStream( new FileInputStream ("myFile"));
   subClass = (SubClass) ois.readObject();
  }catch(Exception e){
   System.out.print("Todo mal!");
  }
 }
}
```

Please choose only one answer:

- s1-s2-a1-a-b1-b-a1-a-b1-b
- s1-s2-a1-a-b1-b-a1-a-
- s1-s2-a1-a-b1-b-
- Todo mal!
- ClassCastException is thrown

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Question: serialization objects (constructors and initialization blocks)
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