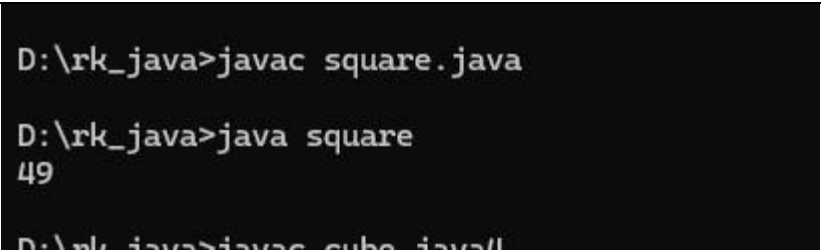
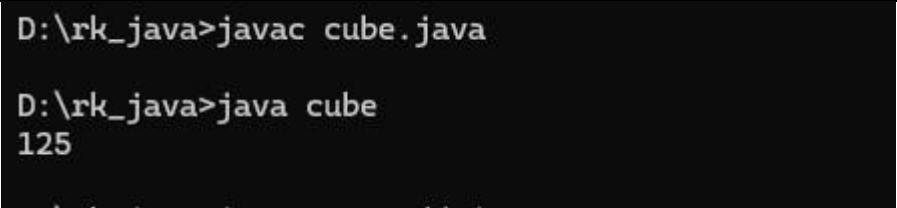


Question 1	Implement using class and object print square
Input	<pre>import java.io.*; class square {     void display()     {         int a=7;         System.out.println(a*a);     }     public static void main(String s[])     {         square s1 = new square();         s1.display();     } }</pre>
output	 <pre>D:\rk_java&gt;javac square.java D:\rk_java&gt;java square 49 D:\rk_java&gt;javac cube.java</pre>
Question 2	Implement using class and object print cube
Input	<pre>import java.io.*; class cube {     void show()     {         int a=5;         System.out.println(a*a*a);     }     public static void main(String s[])     {         cube c1 = new cube();         c1.show();     } }</pre>
Output	 <pre>D:\rk_java&gt;javac cube.java D:\rk_java&gt;java cube 125</pre>
Question 3	Print Even odd number

Input	<pre>import java.io.*; class evenodd {     void disp()     {         int a=5;         if(a%2==0)         {             System.out.println("number is even");         }         else         {             System.out.println("number is odd");         }     }     public static void main(String s[])     {         evenodd d1 = new evenodd();         d1.disp();     } }</pre>
Question 4	Print positive Negative Number
Input	<pre>import java.io.*; class positive {     void show()     {         int a=-1;         if(a&gt;0)         {             System.out.println("number is positive");         }         else if(a&lt;0)         {             System.out.println("number is negative");         }         else         {             System.out.println("number is zero");         }     }     public static void main(String s[])     {         positive p1 = new positive();         p1.show();     } }</pre>

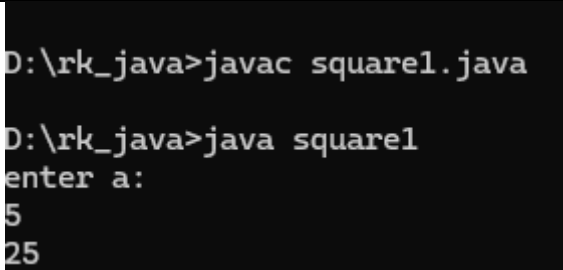
Output	<pre>D:\rk_java&gt;javac positive.java  D:\rk_java&gt;java positive number is negative</pre>
Question 5	Print Interest
Input	<pre>import java.io.*; class intrest {     void disp()     {         int p=20,r=10,n=50,a;         a=p*r*n/100;         System.out.println("intrest is:" +a);     }     public static void main(String s[])     {         intrest i1 = new intrest();         i1.disp();     } }</pre>
Output	<pre>D:\rk_java&gt;javac intrest.java  D:\rk_java&gt;java intrest intrest is:100</pre>
Question 6	Addition
Input	<pre>import java.io.*; class addition {     void add()     {         int a=5,b=7,c;         c = a+b;         System.out.println("addition is:" +c);     }     public static void main(String s[])     {         addition a1 = new addition();         a1.add();     } }</pre>

Output	<pre> D:\rk_java&gt;javac addition.java D:\rk_java&gt;java addition addition is:12 D:\rk_java&gt;javac subtraction.java D:\rk_java&gt;java subtraction subtraction is:5 </pre>
Question 7	Substraction
Input	<pre> import java.io.*; class subtraction {     void sub()     {         int a=10,b=5,c;         c=a-b;         System.out.println("substraction is:" +c);     }     public static void main(String s[])     {         subtraction s1 = new subtraction();         s1.sub();     } } </pre>
Output	<pre> D:\rk_java&gt;javac subtraction.java  D:\rk_java&gt;java subtraction substraction is:5  D:\rk_java&gt;javac multiplication.java </pre>
Question 8	Multiplication
Input	<pre> import java.io.*; class multiplication {     void mul()     {         int a=2,b=7,c;         c=a*b;         System.out.println("multiplication is:" +c);     }     public static void main(String s[])     {         multiplication m1 = new multiplication();         m1.mul();     } } </pre>

Output	<pre> D:\rk_java&gt;javac multiplication.java D:\rk_java&gt;java multiplication multiplication is:14 D:\rk_java&gt;javac division.java D:\rk_java&gt;java division </pre>
Question 9	Division
Input	<pre> import java.io.*; class division {     void div()     {         int a=70,b=10,c;         c=a/b;         System.out.println("division is:" +c);     }     public static void main(String s[])     {         division d1 = new division();         d1.div();     } } </pre>
Output	<pre> multiplication is:14 D:\rk_java&gt;javac division.java D:\rk_java&gt;java division division is:7 </pre>
Question 10	Print Minimum Maximum Value
Input	<pre> import java.io.*; class max {     void min()     {         int a=2,b=5,c=9;         if(a&gt;b &amp;&amp; a&gt;c)         {             System.out.println("a is max");         }         else if(b&gt;a &amp;&amp; b&gt;c)         {             System.out.println("b is max");         }         else         {             System.out.println("c is max");         }     }     public static void main(String s[])     {         max m1 = new max();     } } </pre>

	<pre>         m1.min();     } } </pre>
Output	<pre> D:\rk_java&gt;javac max.java D:\rk_java&gt;java max c is max D:\rk_java&gt;javac inches.java </pre>
Question 11	Inches to centimetre
Input	<pre> import java.io.*; class inches {     void disp()     {         int a=5,b;         b = a*100;         System.out.println("centimeter is:" +b);     }     public static void main(String s[])     {         inches i1 = new inches();         i1.disp();     } } </pre>
Output	<pre> D:\rk_java&gt;javac inches.java D:\rk_java&gt;java inches centimeter is:500 D:\rk_java&gt;javac dersion.java dersion.java:4: error: '{' expected     class then()     ^ </pre>
Question 12	Derisions to Pieces
Input	<pre> import java.io.*; class dersion {     void show()     {         int a=60,b;         b=a/12;         System.out.println("pieces is:" +b);     }     public static void main(String s[])     {         dersion d1 = new dersion();         d1.show();     } } </pre>
Output	<pre> D:\rk_java&gt;javac dersion.java D:\rk_java&gt;java dersion pieces is:5 D:\rk_java&gt;javac loop.java loop.java:6: error: illegal start of type     ^ </pre>

Question 13	Print even Number Using Loop
Input	<pre>import java.io.*; class loop {     void display()     {         int i;         for(i=2;i&lt;=20;i++)         {             if(i%2==0)             {                 System.out.println(i);             }         }     }     public static void main(String s[])     {         loop l1 = new loop();         l1.display();     } }</pre>
Output	<pre>D:\mk_java&gt;javac loop.java D:\mk_java&gt;java loop 2 4 6 8 10 12 14 16 18 20</pre>

Question 1	Print Square
Input	<pre>import java.io.*; import java.util.*; class square1 {     void show()     {         int a;         Scanner sc = new Scanner(System.in);         System.out.println("enter a:");         a=sc.nextInt();         System.out.println(a*a);     }     public static void main(String s[])     {         square1 s1= new square1();         s1.show();     } }</pre>
Output	
Question 2	Print Cube
Input	<pre>import java.io.*; import java.util.*; class cube1 {     void disp()     {         int a;         Scanner sc = new Scanner(System.in);         System.out.println("enter a:");         a = sc.nextInt();         System.out.println(a*a*a);     }     public static void main(String s[])     {         cube1 c1 = new cube1();         c1.disp();     } }</pre>



Output	<pre>D:\rk_java&gt;javac cube1.java  D:\rk_java&gt;java cube1 enter a: 5 125</pre>
Question 3	Print Even Odd
Input	<pre>import java.io.*; import java.util.*; class evenodd1 {     void disp()     {         int a;         Scanner sc = new Scanner(System.in);         System.out.println("enter no:");         a = sc.nextInt();         if(a%2==0)         {             System.out.println("Number is Even");         }         else         {             System.out.println("Number is Odd");         }     }     public static void main(String s[])     {         evenodd1 e1 = new evenodd1();         e1.disp();     } }</pre>
Output	<pre>D:\rk_java&gt;javac evenodd1.java  D:\rk_java&gt;java evenodd1 enter no: 7 Number is Odd</pre>
Question 4	Print Positive Negative Number
Input	<pre>import java.io.*; import java.util.*; class positive1 {     void disp()     {         int no;         Scanner sc = new Scanner(System.in);         System.out.println("enter no:");         no = sc.nextInt();</pre>

	<pre>         if(no&gt;0)         {             System.out.println("Number is Positive");         }         else if(no&lt;0)         {             System.out.println("Number is Negative");         }         else         {             System.out.println("Number is Zero");         }     }     public static void main(String s[])     {         positive1 p1 = new positive1();         p1.disp();     } } </pre>
Output	<pre> D:\rk_java&gt;javac positive1.java  D:\rk_java&gt;java positive1 enter no: 0 Number is Zero </pre>
Question 5	Print Interest
Input	<pre> import java.io.*; import java.util.*; class intrest1 {     void show()     {         int p,r,n,a;         Scanner sc = new Scanner(System.in);         System.out.println("enter p:");         p = sc.nextInt();         System.out.println("enter r:");         r = sc.nextInt();         System.out.println("enter n:");         n = sc.nextInt();         a = p*r*n/100;         System.out.println("intrest is:" +a);     }     public static void main(String s[])     {         intrest1 i1 = new intrest1();         i1.show();     } } </pre>

Output	<pre>D:\rk_java&gt;javac intrest1.java  D:\rk_java&gt;java intrest1 enter p: 5 enter r: 2 enter n: 1 intrest is:0</pre>
Question 6	Addition, Subtraction, Multiplication, Division
Input	<pre>import java.io.*; import java.util.*; class add {     void disp()     {         int a,b,c,d,e,f;         Scanner sc = new Scanner(System.in);         System.out.println("enter a:");         a = sc.nextInt();         System.out.println("enter b:");         b = sc.nextInt();         c = a+b;         System.out.println("Addition is:" +a);         d = a-b;         System.out.println("Substraction is:" +d);         e = a*b;         System.out.println("multiplication is:" +e);         f = a/b;         System.out.println("division is:" +f);     }     public static void main(String s[])     {         add a1 = new add();         a1.disp();     } }</pre>

Output	<pre>D:\rk_java&gt;javac add.java  D:\rk_java&gt;java add enter a: 70 enter b: 7 Addition is:70 Substraction is:63 multiplication is:490 division is:10</pre>
Question 7	Print max and min value
Input	<pre>import java.io.*; import java.util.*; class max1 {     void disp()     {         int a,b,c;         Scanner sc = new Scanner(System.in);         System.out.println("enter a:");         a = sc.nextInt();         System.out.println("enter b:");         b =sc.nextInt();         System.out.println("enter c:");         c =sc.nextInt();         if(a&gt;b &amp;&amp; a&gt;c)         {             System.out.println("A is Max");         }         else if(b&gt;a &amp;&amp; b&gt;c)         {             System.out.println("B is Max");         }         else         {             System.out.println("C is Max");         }     }     public static void main(String s[])     {         max1 m1 = new max1();         m1.disp();     } }</pre>

Output	<pre>D:\rk_java&gt;javac max1.java  D:\rk_java&gt;java max1 enter a: 8 enter b: 7 enter c: 5 A is Max</pre>
Question 8	Inches to Centimetre
Input	<pre>import java.io.*; import java.util.*; class inches1 {     void show()     {         int a,b;         Scanner sc = new Scanner(System.in);         System.out.println("enter a:");         a = sc.nextInt();         b = a*100;         System.out.println(b);     }     public static void main(String s[])     {         inches1 i1 = new inches1();         i1.show();     } }</pre>
Output	<pre>D:\rk_java&gt;javac inches1.java  D:\rk_java&gt;java inches1 enter a: 5 500</pre>
Question 9	Derision to pieces
Input	<pre>import java.io.*; import java.util.*; class dierision {     void disp()     {         int a,b;         Scanner sc = new Scanner(System.in);         System.out.println("Enter a:");         a = sc.nextInt();         b = a*12;         System.out.println(b);     } }</pre>

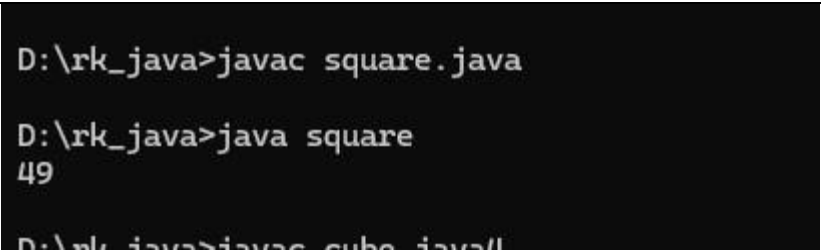
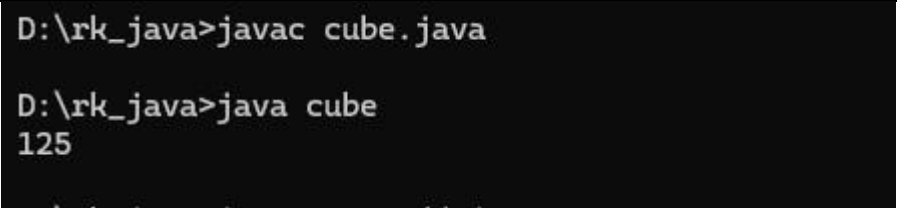
	<pre>         }         public static void main(String s[])         {             diresion d1 = new diresion();             d1.disp();         }     } </pre>
Output	<pre> D:\rk_java&gt;javac diresion.java  D:\rk_java&gt;java diresion Enter a: 2 24 </pre>
Question 10	Print even number using loop
Input	<pre> import java.io.*; import java.util.*; class loop1 {     void show()     {         int i,no;         Scanner sc = new Scanner(System.in);         System.out.println("enter no:");         no = sc.nextInt();         for(i=2; i&lt;=no; i++)         {             if(i%2==0)             {                 System.out.println(i);             }         }     }     public static void main(String s[])     {         loop1 l1 = new loop1();         l1.show();     } } </pre>

Output	<pre>D:\rk_java&gt;javac loop1.java  D:\rk_java&gt;java loop1 enter no: 20 2 4 6 8 10 12 14 16 18 20</pre>
Question 11	Print Armstrong number
Input	<pre>import java.util.*; class Armstrong {     static void disp()     {         int no,r,temp,sum;         Scanner sc=new Scanner(System.in);         System.out.println("enter no:");         no=sc.nextInt();         r=0;         temp=no;         sum=0;         while(temp&gt;0)         {             r=temp%10;             temp=temp/10;             sum=sum+r*r*r;         }         if(sum==0)         {             System.out.println("number is Armstrong");         }         else         {             System.out.println("number is not Armstrong");         }     }     public static void main(String s[])     {         disp();     } }</pre>

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Output	<pre>D:\rk_java&gt;javac Armstrong.java  D:\rk_java&gt;java Armstrong enter no: 825 number is not Armstrong</pre>	
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Question 1	Implement using class and object print square
Input	<pre>import java.io.*; class square {     void display()     {         int a=7;         System.out.println(a*a);     }     public static void main(String s[])     {         square s1 = new square();         s1.display();     } }</pre>
output	 <pre>D:\rk_java&gt;javac square.java D:\rk_java&gt;java square 49 D:\rk_java&gt;javac cube.java</pre>
Question 2	Implement using class and object print cube
Input	<pre>import java.io.*; class cube {     void show()     {         int a=5;         System.out.println(a*a*a);     }     public static void main(String s[])     {         cube c1 = new cube();         c1.show();     } }</pre>
Output	 <pre>D:\rk_java&gt;javac cube.java D:\rk_java&gt;java cube 125</pre>
Question 3	Print Even odd number

Input	<pre>import java.io.*; class evenodd {     void disp()     {         int a=5;         if(a%2==0)         {             System.out.println("number is even");         }         else         {             System.out.println("number is odd");         }     }     public static void main(String s[])     {         evenodd d1 = new evenodd();         d1.disp();     } }</pre>
Question 4	Print positive Negative Number
Input	<pre>import java.io.*; class positive {     void show()     {         int a=-1;         if(a&gt;0)         {             System.out.println("number is positive");         }         else if(a&lt;0)         {             System.out.println("number is negative");         }         else         {             System.out.println("number is zero");         }     }     public static void main(String s[])     {         positive p1 = new positive();         p1.show();     } }</pre>

Output	<pre>D:\rk_java&gt;javac positive.java  D:\rk_java&gt;java positive number is negative</pre>
Question 5	Print Interest
Input	<pre>import java.io.*; class intrest {     void disp()     {         int p=20,r=10,n=50,a;         a=p*r*n/100;         System.out.println("intrest is:" +a);     }     public static void main(String s[])     {         intrest i1 = new intrest();         i1.disp();     } }</pre>
Output	<pre>D:\rk_java&gt;javac intrest.java  D:\rk_java&gt;java intrest intrest is:100</pre>
Question 6	Addition
Input	<pre>import java.io.*; class addition {     void add()     {         int a=5,b=7,c;         c = a+b;         System.out.println("addition is:" +c);     }     public static void main(String s[])     {         addition a1 = new addition();         a1.add();     } }</pre>

Output	<pre> D:\rk_java&gt;javac addition.java D:\rk_java&gt;java addition addition is:12 D:\rk_java&gt;javac subtraction.java D:\rk_java&gt;java subtraction subtraction is:5 </pre>
Question 7	Substraction
Input	<pre> import java.io.*; class subtraction {     void sub()     {         int a=10,b=5,c;         c=a-b;         System.out.println("substraction is:" +c);     }     public static void main(String s[])     {         subtraction s1 = new subtraction();         s1.sub();     } } </pre>
Output	<pre> D:\rk_java&gt;javac subtraction.java  D:\rk_java&gt;java subtraction substraction is:5  D:\rk_java&gt;javac multiplication.java </pre>
Question 8	Multiplication
Input	<pre> import java.io.*; class multiplication {     void mul()     {         int a=2,b=7,c;         c=a*b;         System.out.println("multiplication is:" +c);     }     public static void main(String s[])     {         multiplication m1 = new multiplication();         m1.mul();     } } </pre>

Output	<pre> D:\rk_java&gt;javac multiplication.java D:\rk_java&gt;java multiplication multiplication is:14 D:\rk_java&gt;javac division.java D:\rk_java&gt;java division </pre>
Question 9	Division
Input	<pre> import java.io.*; class division {     void div()     {         int a=70,b=10,c;         c=a/b;         System.out.println("division is:" +c);     }     public static void main(String s[])     {         division d1 = new division();         d1.div();     } } </pre>
Output	<pre> multiplication is:14 D:\rk_java&gt;javac division.java D:\rk_java&gt;java division division is:7 </pre>
Question 10	Print Minimum Maximum Value
Input	<pre> import java.io.*; class max {     void min()     {         int a=2,b=5,c=9;         if(a&gt;b &amp;&amp; a&gt;c)         {             System.out.println("a is max");         }         else if(b&gt;a &amp;&amp; b&gt;c)         {             System.out.println("b is max");         }         else         {             System.out.println("c is max");         }     }     public static void main(String s[])     {         max m1 = new max();     } } </pre>

	<pre>         m1.min();     } } </pre>
Output	<pre> D:\rk_java&gt;javac max.java D:\rk_java&gt;java max c is max D:\rk_java&gt;javac inches.java </pre>
Question 11	Inches to centimetre
Input	<pre> import java.io.*; class inches {     void disp()     {         int a=5,b;         b = a*100;         System.out.println("centimeter is:" +b);     }     public static void main(String s[])     {         inches i1 = new inches();         i1.disp();     } } </pre>
Output	<pre> D:\rk_java&gt;javac inches.java D:\rk_java&gt;java inches centimeter is:500 D:\rk_java&gt;javac dersion.java dersion.java:4: error: '{' expected     class show()     ^ </pre>
Question 12	Derisions to Pieces
Input	<pre> import java.io.*; class dersion {     void show()     {         int a=60,b;         b=a/12;         System.out.println("pieces is:" +b);     }     public static void main(String s[])     {         dersion d1 = new dersion();         d1.show();     } } </pre>
Output	<pre> D:\rk_java&gt;javac dersion.java D:\rk_java&gt;java dersion pieces is:5 D:\rk_java&gt;javac loop.java loop.java:6: error: illegal start of type     class show()     ^ </pre>

Question 13	Print even Number Using Loop
Input	<pre>import java.io.*; class loop {     void display()     {         int i;         for(i=2;i&lt;=20;i++)         {             if(i%2==0)             {                 System.out.println(i);             }         }     }     public static void main(String s[])     {         loop l1 = new loop();         l1.display();     } }</pre>
Output	<pre>D:\mk_java&gt;javac loop.java D:\mk_java&gt;java loop 2 4 6 8 10 12 14 16 18 20</pre>

Question 1	<pre>class A {     final public int GetResult(int a, int b) { return 0; } } class B extends A {     public int GetResult(int a, int b) {return 1; } } public class Test {     public static void main(String args[])     {         B b = new B();         System.out.println("x = " + b.GetResult(0, 1));     } }</pre>
Output	<p><input type="radio"/> A x = 0</p> <p><input type="radio"/> B x = 1</p> <p><input checked="" type="radio"/> C Compilation fails. ✓</p> <p><input type="radio"/> D An exception is thrown at runtime.</p> <p><b>Answer:</b> Option C</p>
Question 2	<pre>public class Test {     public static void main(String args[])     {         class Foo         {             public int i = 3;         }         Object o = (Object)new Foo();         Foo foo = (Foo)o;         System.out.println("i = " + foo.i);     } }</pre>



Output	<p><input checked="" type="radio"/> A i = 3 ✓</p> <p><input type="radio"/> B Compilation fails.</p> <p><input type="radio"/> C i = 5</p> <p><input type="radio"/> D A <code>ClassCastException</code> will occur.</p> <p><b>Answer:</b> Option <input checked="" type="radio"/> A</p>
Question 3	<pre>public class A {     void A() /* Line 3 */     {         System.out.println("Class A");     }     public static void main(String[] args)     {         new A();     } }</pre>
Output	<p><input checked="" type="radio"/> A Class A</p> <p><input type="radio"/> B Compilation fails.</p> <p><input type="radio"/> C An exception is thrown at line 3.</p> <p><input type="radio"/> D The code executes with no output. ✓</p> <p><b>Answer:</b> Option <input checked="" type="radio"/> A</p>
Question 4	<pre>class Super {     public int i = 0;      public Super(String text) /* Line 4 */     {         i = 1;     } }  class Sub extends Super {     public Sub(String text)     {         i = 2;     } }</pre>

	<pre> public static void main(String args[]) {     Sub sub = new Sub("Hello");     System.out.println(sub.i); } </pre>
Output	<p> <input checked="" type="radio"/> A 0  <input type="radio"/> B 1  <input type="radio"/> C 2  <input checked="" type="radio"/> D Compilation fails. ✓         </p> <p><b>Answer:</b> Option <input checked="" type="radio"/> D</p>
Question 5	<pre> public class Test {     public int aMethod()     {         static int i = 0;         i++;         return i;     }     public static void main(String args[])     {         Test test = new Test();         test.aMethod();         int j = test.aMethod();         System.out.println(j);     } } </pre>
Output	<p> <input checked="" type="radio"/> A 0  <input type="radio"/> B 1  <input type="radio"/> C 2  <input checked="" type="radio"/> D Compilation fails. ✓         </p> <p><b>Answer:</b> Option <input checked="" type="radio"/> D</p> <p><b>Explanation:</b></p>

Question 6	<pre>interface Count {     short counter = 0;     void countUp(); } public class TestCount implements Count {     public static void main(String [] args)     {         TestCount t = new TestCount();         t.countUp();     }     public void countUp()     {         for (int x = 6; x&gt;counter; x--, ++counter) /* Line 14 */         {             System.out.print(" " + counter);         }     } }</pre>
Output	<p><input type="radio"/> A 0 1 2</p> <p><input type="radio"/> B 1 2 3</p> <p><input type="radio"/> C 0 1 2 3</p> <p><input type="radio"/> D 1 2 3 4</p> <p><input checked="" type="radio"/> E Compilation fails ✓</p> <p><b>Answer:</b> Option E</p>
Question 7	<pre>class Base {     Base()     {         System.out.print("Base");     } } public class Alpha extends Base {     public static void main(String[] args)     {         new Alpha(); /* Line 12 */         new Base(); /* Line 13 */     } }</pre>

Output	<p> <input type="radio"/> A Base  <input checked="" type="radio"/> B BaseBase ✓  <input type="radio"/> C Compilation fails  <input type="radio"/> D The code runs with no output         </p> <p><b>Answer:</b> Option <b>B</b></p>
Question 8	<pre> import java.util.*; public class NewTreeSet2 extends NewTreeSet {     public static void main(String [] args)     {         NewTreeSet2 t = new NewTreeSet2();         t.count();     } } protected class NewTreeSet {     void count()     {         for (int x = 0; x &lt; 7; x++,x++ )         {             System.out.print(" " + x);         }     } } </pre>
Output	<p> <input type="radio"/> A 0 2 4  <input type="radio"/> B 0 2 4 6  <input type="radio"/> C Compilation fails at line 2  <input checked="" type="radio"/> D Compilation fails at line 10 ✓         </p> <p><b>Answer:</b> Option <b>D</b></p>
Question 9	<pre> public class ArrayTest {     public static void main(String[ ] args)     {         float f1[ ], f2[ ];         f1 = new float[10];         f2 = f1;         System.out.println("f2[0] = " + f2[0]);     } } </pre>

	<pre>     } } </pre>
Output	<p> <input checked="" type="radio"/> A It prints f2[0] = 0.0 ✓  <input type="radio"/> B It prints f2[0] = NaN  <input type="radio"/> C An error at <code>f2 = f1;</code> causes compile to fail.  <input type="radio"/> D It prints the garbage value.         </p> <p><b>Answer:</b> Option <input checked="" type="radio"/> A</p>
Question 10	<pre> class Super {     public Integer getLength()     {         return new Integer(4);     } }  public class Sub extends Super {     public Long getLength()     {         return new Long(5);     }      public static void main(String[] args)     {         Super sooper = new Super();         Sub sub = new Sub();         System.out.println(             sooper.getLength().toString() + "," + sub.getLength().toString() );     } } </pre>
Output	<p> <input checked="" type="radio"/> A 4, 4  <input type="radio"/> B 4, 5  <input type="radio"/> C 5, 4  <input checked="" type="radio"/> D Compilation fails. ✓         </p> <p><b>Answer:</b> Option <input checked="" type="radio"/> D</p>

Question 11	<pre>class PassA {     public static void main(String [] args)     {         PassA p = new PassA();         p.start();     }      void start()     {         long [] a1 = {3,4,5};         long [] a2 = fix(a1);         System.out.print(a1[0] + a1[1] + a1[2] + " ");         System.out.println(a2[0] + a2[1] + a2[2]);     }      long [] fix(long [] a3)     {         a3[1] = 7;         return a3;     } }</pre>
Output	<p><input type="radio"/> A 12 15</p> <p><input checked="" type="radio"/> B 15 15 ✓</p> <p><input type="radio"/> C 3 4 5 3 7 5</p> <p><input type="radio"/> D 3 7 5 3 7 5</p> <p><b>Answer:</b> Option <b>B</b></p>
Question 12	<pre>class Test {     public static void main(String [] args)     {         Test p = new Test();         p.start();     }      void start()     {         boolean b1 = false;         boolean b2 = fix(b1);         System.out.println(b1 + " " + b2);     }      boolean fix(boolean b1)</pre>

	<pre> {     b1 = true;     return b1; } } </pre>
Output	<p>Ⓐ true true</p> <p>Ⓑ false true ✓</p> <p>Ⓒ true false</p> <p>Ⓓ false false</p> <p><b>Answer:</b> Option Ⓑ</p>
Question 13	<pre> class PassS {     public static void main(String [] args)     {         PassS p = new PassS();         p.start();     }      void start()     {         String s1 = "slip";         String s2 = fix(s1);         System.out.println(s1 + " " + s2);     }      String fix(String s1)     {         s1 = s1 + "stream";         System.out.print(s1 + " ");         return "stream";     } } </pre>
Output	<p>Ⓐ slip stream</p> <p>Ⓑ slipstream stream</p> <p>Ⓒ stream slip stream</p> <p>Ⓓ slipstream slip stream ✓</p> <p><b>Answer:</b> Option Ⓓ</p>

Question 14	<pre>class BitShift {     public static void main(String [] args)     {         int x = 0x80000000;         System.out.print(x + " and ");         x = x &gt;&gt;&gt; 31;         System.out.println(x);     } }</pre>
Output	<p><input checked="" type="radio"/> A -2147483648 and 1 ✓</p> <p><input type="radio"/> B 0x80000000 and 0x00000001</p> <p><input type="radio"/> C -2147483648 and -1</p> <p><input type="radio"/> D 1 and -2147483648</p> <p><b>Answer:</b> Option <input checked="" type="radio"/> A</p>
Question 15	<pre>class Equals {     public static void main(String [] args)     {         int x = 100;         double y = 100.1;         boolean b = (x = y); /* Line 7 */         System.out.println(b);     } }</pre>
Output	<p><input checked="" type="radio"/> A true</p> <p><input type="radio"/> B false</p> <p><input checked="" type="radio"/> C Compilation fails ✓</p> <p><input type="radio"/> D An exception is thrown at runtime</p> <p><b>Answer:</b> Option <input checked="" type="radio"/> C</p>
Question 16	<pre>class Test {     public static void main(String [] args)     {         int x=20;         String sup = (x &lt; 15) ? "small" : (x &lt; 22)? "tiny" : "huge";</pre>



	<pre> System.out.println(sup);     } } </pre>
Output	<p>Ⓐ small</p> <p>Ⓑ tiny ✓</p> <p>Ⓒ huge</p> <p>Ⓓ Compilation fails</p> <p><b>Answer:</b> Option Ⓑ</p>
Question 17	<pre> class Test {     public static void main(String [] args)     {         int x= 0;         int y= 0;         for (int z = 0; z &lt; 5; z++)         {             if (( ++x &gt; 2 ) &amp;&amp; (++y &gt; 2))             {                 x++;             }         }         System.out.println(x + " " + y);     } } </pre>
Output	<p>Ⓐ 5 2</p> <p>Ⓑ 5 3</p> <p>Ⓒ 6 3 ✓</p> <p>Ⓓ 6 4</p> <p><b>Answer:</b> Option Ⓒ</p>
Question 18	<pre> class Test {     public static void main(String [] args)     {         int x= 0;         int y= 0;         for (int z = 0; z &lt; 5; z++) </pre>

	<pre>{     if (( ++x &gt; 2 )    ( ++y &gt; 2 ))     {         x++;     } } System.out.println(x + " " + y); }</pre>
Output	<p><input type="radio"/> A 5 3</p> <p><input checked="" type="radio"/> B 8 2 ✓</p> <p><input type="radio"/> C 8 3</p> <p><input type="radio"/> D 8 5</p> <p><b>Answer:</b> Option <b>B</b></p>
Question 19	<pre>class Bitwise {     public static void main(String [] args)     {         int x = 11 &amp; 9;         int y = x ^ 3;         System.out.println( y   12 );     } }</pre>
Output	<p><input type="radio"/> A 0</p> <p><input type="radio"/> B 7</p> <p><input type="radio"/> C 8</p> <p><input checked="" type="radio"/> D 14 ✓</p> <p><b>Answer:</b> Option <b>D</b></p>
Question 20	<pre>class SSBool {     public static void main(String [] args)     {         boolean b1 = true;         boolean b2 = false;         boolean b3 = true;</pre>

	<pre>if ( b1 &amp; b2   b2 &amp; b3   b2 ) /* Line 8 */     System.out.print("ok "); if ( b1 &amp; b2   b2 &amp; b3   b2   b1 ) /*Line 10*/     System.out.println("dokey"); } }</pre>
Output	<p><input type="radio"/> A ok</p> <p><input checked="" type="radio"/> B dokey ✓</p> <p><input type="radio"/> C ok dokey</p> <p><input type="radio"/> D No output is produced</p> <p><input type="radio"/> E Compilation error</p> <p><b>Answer:</b> Option <b>B</b></p>
Question 21	<pre>class SC2 {     public static void main(String [] args)     {         SC2 s = new SC2();         s.start();     }      void start()     {         int a = 3;         int b = 4;         System.out.print(" " + 7 + 2 + " ");         System.out.print(a + b);         System.out.print(" " + a + b + " ");         System.out.print(foo() + a + b + " ");         System.out.println(a + b + foo());     }      String foo()     {         return "foo";     } }</pre>

Output	<p>Ⓐ 9 7 7 foo 7 7foo</p> <p>Ⓑ 72 34 34 foo34 34foo</p> <p>Ⓒ 9 7 7 foo34 34foo</p> <p>Ⓓ 72 7 34 foo34 7foo ✓</p> <p><b>Answer:</b> Option Ⓓ</p>
Question 22	<pre> class Test {     static int s;     public static void main(String [] args)     {         Test p = new Test();         p.start();         System.out.println(s);     }      void start()     {         int x = 7;         twice(x);         System.out.print(x + " ");     }      void twice(int x)     {         x = x*2;         s = x;     } } </pre>
Output	<p>Ⓐ 7 7</p> <p>Ⓑ 7 14 ✓</p> <p>Ⓒ 14 0</p> <p>Ⓓ 14 14</p> <p><b>Answer:</b> Option Ⓑ</p>
Question 23	<pre> class Two {     byte x; </pre>

	<pre>}  class PassO {     public static void main(String [] args)     {         PassO p = new PassO();         p.start();     }      void start()     {         Two t = new Two();         System.out.print(t.x + " ");         Two t2 = fix(t);         System.out.println(t.x + " " + t2.x);     }      Two fix(Two tt)     {         tt.x = 42;         return tt;     } }</pre>
Output	<p><input type="radio"/> A null null 42</p> <p><input type="radio"/> B 0 0 42</p> <p><input checked="" type="radio"/> C 0 42 42 ✓</p> <p><input type="radio"/> D 0 0 0</p> <p><b>Answer:</b> Option C</p>
Question 24	<pre>class BoolArray {     boolean [] b = new boolean[3];     int count = 0;      void set(boolean [] x, int i)     {         x[i] = true;         ++count;     }      public static void main(String [] args)     {         BoolArray ba = new BoolArray();</pre>

	<pre>ba.set(ba.b, 0); ba.set(ba.b, 2); ba.test(); }  void test() {     if ( b[0] &amp;&amp; b[1]   b[2] )         count++;     if ( b[1] &amp;&amp; b[(++count - 2)] )         count += 7;     System.out.println("count = " + count); } }</pre>
Output	<p><input checked="" type="radio"/> A count = 0</p> <p><input type="radio"/> B count = 2</p> <p><input checked="" type="radio"/> C count = 3 ✓</p> <p><input type="radio"/> D count = 4</p> <p><b>Answer:</b> Option <b>C</b></p>
Question 25	<pre>public class Test {     public static void leftshift(int i, int j)     {         i &lt;= j;     }     public static void main(String args[])     {         int i = 4, j = 2;         leftshift(i, j);         System.out.println(i);     } }</pre>

Output	<p><input type="radio"/> A 2</p> <p><input checked="" type="radio"/> B 4 ✓</p> <p><input type="radio"/> C 8</p> <p><input type="radio"/> D 16</p> <p><b>Answer:</b> Option <b>B</b></p>
Question 26	<pre>import java.awt.*; class Ticker extends Component {     public static void main (String [] args)     {         Ticker t = new Ticker();         /* Missing Statements ? */     } }</pre>
Output	<p><input type="radio"/> A 1 and 4</p> <p><input type="radio"/> B 2 and 3</p> <p><input type="radio"/> C 1 and 3</p> <p><input checked="" type="radio"/> D 2 and 4 ✓</p> <p><b>Answer:</b> Option <b>D</b></p>
Question 27	<pre>import java.awt.Button; class CompareReference {     public static void main(String [] args)     {         float f = 42.0f;         float [] f1 = new float[2];         float [] f2 = new float[2];         float [] f3 = f1;         long x = 42;         f1[0] = 42.0f;     } }</pre>

Output	<p><input type="radio"/> A 1, 2 and 3</p> <p><input checked="" type="radio"/> B 2, 4 and 5 ✓</p> <p><input type="radio"/> C 3, 4 and 5</p> <p><input type="radio"/> D 1, 4 and 5</p> <p><b>Answer:</b> Option <b>B</b></p>
Question 28	<pre>public class Test {     public static void main (String[] args)     {         String foo = args[1];         String bar = args[2];         String baz = args[3];         System.out.println("baz = " + baz); /* Line 8 */     } }</pre>
Output	<p><input type="radio"/> A baz =</p> <p><input type="radio"/> B baz = null</p> <p><input type="radio"/> C baz = blue</p> <p><input checked="" type="radio"/> D Runtime Exception ✓</p> <p><b>Answer:</b> Option <b>D</b></p>
Question 29	<pre>public class Test {     public static void main (String args[])     {         String str = NULL;         System.out.println(str);     } }</pre>



Output	<p>Ⓐ NULL</p> <p>Ⓑ Compile Error ✔</p> <p>Ⓒ Code runs but no output</p> <p>Ⓓ Runtime Exception</p> <p><b>Answer:</b> Option Ⓑ</p>
Question 30	<pre> package foo; import java.util.Vector; /* Line 2 */ private class MyVector extends Vector {     int i = 1; /* Line 5 */     public MyVector()     {         i = 2;     } } public class MyNewVector extends MyVector {     public MyNewVector ()     {         i = 4; /* Line 15 */     }     public static void main (String args [])     {         MyVector v = new MyNewVector(); /* Line 19 */     } } </pre>
Output	<p>Ⓐ Compilation will succeed.</p> <p>Ⓑ Compilation will fail at line 3. ✔</p> <p>Ⓒ Compilation will fail at line 5.</p> <p>Ⓓ Compilation will fail at line 15.</p> <p><b>Answer:</b> Option Ⓑ</p>
Question 31	<pre> public class Test {     private static int[] x;     public static void main(String[] args)     {         System.out.println(x[0]);     } } </pre>

	<pre>         }     } </pre>
Output	<p> <input type="radio"/> A 0  <input type="radio"/> B null  <input type="radio"/> C Compile Error  <input checked="" type="radio"/> D NullPointerException at runtime ✓         </p> <p><b>Answer:</b> Option <b>D</b></p>
Question 32	<pre> import java.util.*; class I {     public static void main (String[] args)     {         Object i = new ArrayList().iterator();         System.out.print((i instanceof List)+",");         System.out.print((i instanceof Iterator)+",");         System.out.print(i instanceof ListIterator);     } } </pre>
Output	<p> <input type="radio"/> A Prints: false, false, false  <input type="radio"/> B Prints: false, false, true  <input checked="" type="radio"/> C Prints: false, true, false ✓  <input type="radio"/> D Prints: false, true, true         </p> <p><b>Answer:</b> Option <b>C</b></p>
Question 33	<pre> public class Test {     private static float[] f = new float[2];     public static void main (String[] args)     {         System.out.println("f[0] = " + f[0]);     } } </pre>

Output	<p><input type="radio"/> A f[0] = 0</p> <p><input checked="" type="radio"/> B f[0] = 0.0 ✓</p> <p><input type="radio"/> C Compile Error</p> <p><input type="radio"/> D Runtime Exception</p> <p><b>Answer: Option B</b></p>
Question 34	<pre>import java.util.*; class H {     public static void main (String[] args)     {         Object x = new Vector().elements();         System.out.print((x instanceof Enumeration)+"");         System.out.print((x instanceof Iterator)+"");         System.out.print(x instanceof ListIterator);     } }</pre>
Output	<p><input type="radio"/> A Prints: false,false,false</p> <p><input type="radio"/> B Prints: false,false,true</p> <p><input type="radio"/> C Prints: false,true,false</p> <p><input checked="" type="radio"/> D Prints: true,false,false ✓</p> <p><b>Answer: Option D</b></p>
Question 35	<pre>TreeSet map = new TreeSet(); map.add("one"); map.add("two"); map.add("three"); map.add("four"); map.add("one"); Iterator it = map.iterator(); while (it.hasNext() ) {     System.out.print( it.next() + " " ); }</pre>

Output	<p><input type="radio"/> A one two three four</p> <p><input type="radio"/> B four three two one</p> <p><input checked="" type="radio"/> C four one three two ✓</p> <p><input type="radio"/> D one two three four one</p> <p><b>Answer:</b> Option C</p>
Question 36	<pre>public static void main(String[] args) {     Object obj = new Object()     {         public int hashCode()         {             return 42;         }     };     System.out.println(obj.hashCode()); }</pre>
Output	<p><input checked="" type="radio"/> A 42 ✓</p> <p><input type="radio"/> B Runtime Exception</p> <p><input type="radio"/> C Compile Error at line 2</p> <p><input type="radio"/> D Compile Error at line 5</p> <p><b>Answer:</b> Option A</p>
Question 37	<pre>class Test1 {     public int value;     public int hashCode() { return 42; } } class Test2 {     public int value;     public int hashCode() { return (int)(value^5); } }</pre>

Output	<p><input type="radio"/> Ⓐ <code>class Test1</code> will not compile.</p> <p><input type="radio"/> Ⓑ The <code>Test1 hashCode()</code> method is more efficient than the <code>Test2 hashCode()</code> method.</p> <p><input checked="" type="radio"/> Ⓒ The <code>Test1 hashCode()</code> method is less efficient than the <code>Test2 hashCode()</code> method.</p> <p><input type="radio"/> Ⓓ <code>class Test2</code> will not compile.</p> <p>Answer: Option Ⓒ</p>
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