DURGASOFT-Java Talent Test

Q1. Consider the code:

```java
class Test
{
        public static void main(String[] args)
        {
                while(1)
                {
                        System.out.print("Hello");
                }
                System.out.print("Hi");
        }
}
```

A) It will print Hello infinite number of times
B) HelloHi
C) Compilation Fails
D) An exception is thrown at runtime

Q2. Consider the code:

```java
class Test
{
        public static void main(String[] args)
        {
                int n=5;
                while(n>0)
                {
                        System.out.print(n--);
                }
        }
}
```

What is the result?
A) 54321
B) 43210
C) 4321
D) 543210

Q3. Consider the following coding snippets:

Coding Snippet-1:

```java
while(true)
        System.out.println("Hello");
```

Coding Snippet-2:

```java
while(true) ;
```

Coding Snippet-3:

```java
while(true)
        int x =10;
```

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Coding Snippet-4:

```
while(true)
{
        int x =10;
}
```

Which of the following coding snippets cause compile time error?
A) Coding snippet-1
B) Coding snippet-2
C) Coding snippet-3
D) Coding snippet-4
E) Coding snippets 1 and 2
F) Coding snippets 2 and 3
G) Coding snippets 3 and 4

Q4. Consider the following coding snippets:
Coding Snippet-1:

```
while(true)
{
        System.out.println("Hello");
}
System.out.println("Hi");
```

Coding Snippet-2:

```
while(false)
{
        System.out.println("Hello");
}
System.out.println("Hi");
```

Coding Snippet-3:

```
int a =10, b = 20;
while(a<b)
{
        System.out.println("Hello");
}
System.out.println("Hi");
```

Coding Snippet-4:

```
int a =10, b = 20;
while(a>b)
{
        System.out.println("Hello");
}
System.out.println("Hi");
```

Coding Snippet-5:

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```
-----------------
final int a =10, b = 20;
while(a<b)
{
        System.out.println("Hello");
}
System.out.println("Hi");
```

Coding Snippet-6:
```
-----------------
final int a =10, b = 20;
while(a>b)
{
        System.out.println("Hello");
}
System.out.println("Hi");
```

In Which of the following coding snippets we will get compile time error?

A) Coding Snippet-1
B) Coding Snippet-2
C) Coding Snippet-3
D) Coding Snippet-4
E) Coding Snippet-5
F) Coding Snippet-6

Q5. Which of the following are TRUE?
A) In the case of while loop, the loop body can be executed zero number of times.
B) In the case of do-while loop, the loop body should be executed atleast once.
C) In the case of do-while loop, the loop body can be executed zero number of times.
D) In the case of while loop, the loop body should be executed atleast once.

Q6. Consider the following coding snippets:
Coding Snippet-1:
```
-----------------
do
  System.out.println("Hello");
while(true);
```

Coding Snippet-2:
```
-----------------
do;
while(true);
```

Coding Snippet-3:
```
-----------------
do
while(true);
```

Coding Snippet-4:
```
-----------------
do
```

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```
   int x = 10;
while(true);
```

Coding Snippet-5:

```
do
{
        int x =10;
}
while(true);
```
In Which of the following coding snippets we will get compile time error?

A) Coding Snippet-1
B) Coding Snippet-2
C) Coding Snippet-3
D) Coding Snippet-4
E) Coding Snippet-5

Q7. Consider the code:
```
class Test
{
        public static void main(String[] args)
        {
                do while(true)//Line-1
                System.out.println("Hello");
                while(false);
        }
}
```

A) Compilation Fails because we are not taking any statement between do and while at Line-1
B) Compilation Fails because we are not taking ; at Line-1
C) Compilation Fails because while(false); is unreachable statement.
D) It will print Hello infinite number of times.

Q8. Consider the following coding snippets:
Coding Snippet-1:

```
do
{
        System.out.println("Hello");
}
while (true);
System.out.println("Hi");
```

Coding Snippet-2:

```
do
{
        System.out.println("Hello");
}
while (false);
System.out.println("Hi");
```

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Coding Snippet-3:

```
int a =10, b = 20;
do
{
        System.out.println("Hello");
}
while (a<b);
System.out.println("Hi");
```

Coding Snippet-4:

```
int a =10, b = 20;
do
{
        System.out.println("Hello");
}
while (a>b);
System.out.println("Hi");
```

Coding Snippet-5:

```
final int a =10, b = 20;
do
{
        System.out.println("Hello");
}
while (a<b);
System.out.println("Hi");
```

Coding Snippet-6:

```
final int a =10, b = 20;
do
{
        System.out.println("Hello");
}
while (a>b);
System.out.println("Hi");
```

In Which of the following coding snippets we will get compile time error?

A) Coding Snippet-1
B) Coding Snippet-2
C) Coding Snippet-3
D) Coding Snippet-4
E) Coding Snippet-5

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Q9. Consider the following code:

```
class Test
{
        public static void main(String[] args)
        {
                final int a =10, b = 20;//Line-1
                do
                {
                        System.out.println("Hello");
                        //Line-2
                }
                while (a<b);
                System.out.println("Hi");//Line-3
        }
}
```

Which of the following modifications required independently to compile Test class?

A) Remove final keyword at Line-1.
B) use break statement at Line-2.
C) Remove Line-3
D) None of these

Q10. Consider the for loop syntax:

```
for(initialization_section; conditional_check;increment_decrement_section)
{
        body;
}
```

Which of the following statements are valid?

A) Initialization Section will be executed for every iteration.
B) Initialization Section will be executed only once.
C) Conditional_check will be performed for every iteration.
D) body will be executed for every iteration.

Q11. Consider the for loop syntax:

```
for(initialization_section; conditional_check;increment_decrement_section)
{
        body;
}
```

In the initialization_section, which of the variable declarations are allowed?

A) int i =0;
B) int i=0,j=0;
C) int i =0, String s ="durga";
D) int i =0, int j = 0;

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Q12. Consider the code:

```
class Test
{
        public static void main(String[] args)
        {
                int i =0;
                for(System.out.print("Hello");i<3;i++)
                {
                        System.out.print("Hi");
                }
        }
}
```

A) Compilation Fails
B) HelloHi
C) HelloHiHi
D) HelloHiHiHi

Q13. Consider the for loop syntax:

```
for(initialization_section; conditional_check;increment_decrement_section)
{
        body;
}
```

Which of the following is TRUE about conditional_check?

A) We can take any expression, but should be of boolean type.
B) It is optional. If we are not writing any expression, then the compiler will place true value.
C) It is optional. If we are not writing any expression, then the compiler will place false value.
D) It is mandatory.

Q14. Consider the code:

```
class Test
{
        public static void main(String[] args)
        {
                for(int i=0;;i++)
                {
                        System.out.print(i+",");
                }
        }
}
```

What is the result?
A) Compilation Fails.
B) It will print 1,2,3,4,... Infinite times
C) It will print 0,1,2,3,... Infinite times
D) An exception is thrown at runtime

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Q15. Consider the code:

```
class Test
{
        public static void main(String[] args)
        {
                for(byte b=0;;b++)
                {
                        System.out.print(b+",");
                }
        }
}
```

What is the result?
A) Compilation Fails.
B) It will print 1,2,3,4,...,127
C) It will print 0,1,2,3,...,127
D) It will print 0,1,2,3,... Infinite times but all values within the byte range only.

Q16. Consider the code:

```
class Test
{
        public static void main(String[] args)
        {
                for(byte b=0;;b=b+1)
                {
                        System.out.print(b+",");
                }
        }
}
```

What is the result?
A) Compilation Fails.
B) It will print 1,2,3,4,...,127
C) It will print 0,1,2,3,...,127
D) It will print 0,1,2,3,... Infinite times but all values within the byte range only.

Q17. Consider the code:

```
class Test
{
        public static void main(String[] args)
        {
                int i =0;
                for(System.out.print("Hello");i<3;System.out.print("Hi"))
                {
                        i++;
                }
        }
}
```

A) Compilation Fails
B) HelloHi
C) HelloHiHi
D) HelloHiHiHi

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Q18. Consider the following coding snippets:

Coding Snippet-1:

```
for(;;)
{
    System.out.println("Hello");
}
```

Coding Snippet-2:

```
for(;;);
```

Which of the following are valid?

A) Coding Snippet-1 causes compile time error.
B) Coding Snippet-2 causes compile time error.
C) Coding Snippet-1 prints Hello infinite number of times.
D) Coding Snippet-2 raises runtime exception.
E) Coding Snippet-2 compiles and runs fine but won't produce any output.

Q19. Consider the following coding snippets:

Coding Snippet-1:

```
for(int i =0; true; i++)
{
        System.out.println("Hello");
}
System.out.println("Hi");
```

Coding Snippet-2:

```
for(int i =0; false; i++)
{
        System.out.println("Hello");
}
System.out.println("Hi");
```

Coding Snippet-3:

```
for(int i =0;;i++)
{
        System.out.println("Hello");
}
System.out.println("Hi");
```

Coding Snippet-4:

```
int a=10,b=20;
for(int i =0; a<b; i++)
{
        System.out.println("Hello");
```

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```
}
System.out.println("Hi");
```

Coding Snippet-5:

```
int a=10,b=20;
for(int i =0; a>b; i++)
{
        System.out.println("Hello");
}
System.out.println("Hi");
```

Coding Snippet-6:

```
final int a=10,b=20;
for(int i =0; a<b; i++)
{
        System.out.println("Hello");
}
System.out.println("Hi");
```

Coding Snippet-6:

```
final int a=10,b=20;
for(int i =0; a>b; i++)
{
        System.out.println("Hello");
}
System.out.println("Hi");
```

In Which of the following coding snippets we will get compile time error?

A) Coding Snippet-1
B) Coding Snippet-2
C) Coding Snippet-3
D) Coding Snippet-4
E) Coding Snippet-5
F) Coding Snippet-6

Q20. Consider the array:
```
int[] a = {10,20,30,40};
```

Which of the following are valid ways to retrieve elments of array?

A)
```
for(int i =0; i<a.length; i++)
{
        System.out.println(a[i]);
}
```

B)

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```
for(int x : a)
{
        System.out.println(x);
}


C)
for(int i = 0; i<=a.length; i++)
{
        System.out.println(a[i]);
}


D)
for(int x : int[] a)
{
        System.out.println(x);
}


E)
for(var x : a)
{
        System.out.println(x);
}
```

Q21. Consider the array declaration:
int[][] x = {{10,20,30},{40,50,60}};

Which of the following are valid ways to retrieve elements of array?

```
A)
for(int i = 0; i< x.length; i++)
{
        for(int j =0; j<x[i].length; j++)
        {
                System.out.println(x[i][j]);
        }
}


B)
for(int[] x1 : x)
{
        for(int x2 : x1)
        {
                System.out.println(x2);
        }
}


C)
for(var x1 : x)
{
        for(var x2 : x1)
        {
                System.out.println(x2);
```

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```
        }
}

D)
for(var i = 0; i< x.length; i++)
{
        for(var j =0; j<x[i].length; j++)
        {
                System.out.println(x[i][j]);
        }
}
```

Q22. Consider the code:

```
int[][][]  x = {{{10,20},{30,40}},{{50,60},{70,80}}};
```

Which of the following are valid ways to retrieve elements of array?
A)
```
for(int[][] x1 : x)
{
        for(int[] x2:x1)
        {
                for(int x3: x2)
                {
                        System.out.println(x3);
                }
        }
}
```

B)
```
for(var x1 : x)
{
        for(var x2:x1)
        {
                for(var x3: x2)
                {
                        System.out.println(x3);
                }
        }
}
```
C) Neither A nor B
D) Both A and B

Q23. Which of the following are valid?
A) Enahanced for loop is not general purpose loop and it can be used only for arrays and collections.
B) By using Normal for loop we can retrieve elements either in original order or in reverse order.
C) By using Enhanced for loop we can retrieve elements only in original order but not in reverse order.
D) All of these

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Q24. Consider the code:

```
class Test
{
        public static void main(String[] args)
        {
                int[] x = {10,20,30,40};
                for(int i=x.length-1;i>=0;i--)
                {
                        System.out.print(x[i]);
                }
        }
}
```

What is the result?

A) 40302010
B) 10203040
C) Compilation Fails.
D) An exception is thrown at runtime.

Q25. Consider the code:

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

                for(String s: args)
                {
                        System.out.print(s);
                }
        }
}
```

And consider the command invocation:

java Test Python Java Devops
What is the result?

A) Python-Java--Devops---
B) Compilation Fails
C) An exception is thrown at runtime.
D) Python-Java--Devops----

Q26. Consider the following code:

```
class Test
{
        static public void main(String... durgastrings)
        {
                for(var string: durgastrings)
                {
                   System.out.println("Hello..Take care about type of string");
                }
```

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```
        }
}
```

What is the type of local variable string?

A) String
B) String[]
C) No type will be assigned.
D) String...

Q27. Consider the array:
int[] x = {10,20,30,40,50,60};

To process all array elements in the original order, which of the following loop can be used?

A) Standard for loop.
B) Enhanced for loop.
C) Either standard for loop or enhanced for loop.
D) Neither standard for loop nor enhanced for loop.

Q28. Consider the array:
int[] x = {10,20,30,40,50,60};

To process all array elements in the reverse order, which of the following loop can be used?

A) Standard for loop.
B) Enhanced for loop.
C) Either standard for loop or enhanced for loop.
D) Neither standard for loop nor enhanced for loop.

Q29. Consider the array:
int[] x = {10,20,30,40,50,60};

To process alternative array elements in the original order, which of the following loop can be used?

A) Standard for loop.
B) Enhanced for loop.
C) Either standard for loop or enhanced for loop.
D) Neither standard for loop nor enhanced for loop.

Q30. Consider the following code:
```
class Test
{
        static public void main(String... durgastrings)
        {
                int[] x = {10,20,30,40,50,60};
                for(int i =0; i<x.length; i+=2)
                {
                        System.out.print(x[i]);
                }

        }
```

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}

What is the result?
A) 103050
B) 204060
C) 102030405060
D) An ArrayIndexOutOfBoundsException is thrown at runtime.

Q31. Consider the code:
```
class Test
{
        static public void main(String... durgastrings)
        {
                int x =10;
                switch(x)
                {
                        case 10:
                                System.out.print(10);
                          break;
                        case 20:
                                System.out.print(20);
                        case 30:
                                System.out.print(30);
                }
        }
}
```

What is the result?
A) 10
B) 102030
C) An exception is thrown at runtime.
D) Compilation Fails.

Q32. Consider the following code:
```
class Test
{
        static public void main(String... durgastrings)
        {
                for(int i =0; i <10; i++)
                {
                        if (i == 5)
                                break;
                        System.out.print(i);
                }
        }
}
```

What is the result?
A) 01234
B) 5
C) 0123456789
D) Compilation Fails.

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Q33. Consider the code :

```
class Test
{
        static public void main(String... durgastrings)
        {
                int x =10;
                l1:
                {
                        System.out.println("Begin");
                        if (x==10)
                                break l1;
                        System.out.println("End");
                }
                System.out.println("Outside of Labeled block");
        }
}
```

A) Compilation Fails
B) Begin
C)
Begin
Outside of Labeled block
D)
Begin
End
Outside of Labeled block

Q34. Consider the following code:

```
class Test
{
        static public void main(String... durgastrings)
        {
                int x =10;
                if(x == 10)
                {
                        System.out.print("Hello-");
                        break;
                }
                else
                {
                        System.out.print("Hi-");
                }
                System.out.println("HelloHi");
        }
}
```

What is the result?
A) Hello-HelloHi
B) Hello-Hi-HelloHi
C) Compilation Fails.
D) Hello-

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Q35. Consider the code:

```java
class Test
{
        static public void main(String... durgastrings)
        {
                for(int i =0; i<10; i++)
                {
                        if (i%2 != 0)
                                continue;
                        System.out.print(i);
                }

        }
}
```
A) 02468
B) 13579
C) 0123456789
D) Compilation Fails

Q36. Consider the code:
```java
class Test
{
        static public void main(String... durgastrings)
        {
                int x =10;
                if (x==10)
                {
                        System.out.print("Hello-");
                        continue;
                }
                else
                {
                        System.out.print("Hi-");
                }
                System.out.println("HelloHi");

        }
}
```

What is the result?
A) Hello-HelloHi
B) Hello-Hi-HelloHi
C) Compilation Fails.
D) Hello-

Q37. Consider the code:

```java
class Test
{
        static public void main(String... durgastrings)
        {
```

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```
            l1:
            for (int i = 0;i<3;i++ )
            {
                    for (int j=0;j<3;j++ )
                    {
                            if(i==j)
                                    break;
                            System.out.println(i+":"+j);
                    }
            }

      }
}
```

A)
1:0
2:0
2:1
B)
0:1
0:2
1:0
1:2
2:0
2:1
C) It won't print anything.
D)
0:0
1:1
2:2

Q38. Consider the code:

```
class Test
{
        static public void main(String... durgastrings)
        {
                l1:
                for (int i = 0;i<3;i++ )
                {
                        for (int j=0;j<3;j++ )
                        {
                                if(i==j)
                                        continue;
                                System.out.println(i+":"+j);
                        }
                }

        }
}
```

A)
1:0

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2:0
2:1
B)
0:1
0:2
1:0
1:2
2:0
2:1
C) It won't print anything.
D)
0:0
1:1
2:2

Q39. Consider the code:
```
class Test
{
        static public void main(String... durgastrings)
        {
                l1:
                for (int i = 0;i<3;i++ )
                {
                        for (int j=0;j<3;j++ )
                        {
                                if(i==j)
                                        break l1;
                                System.out.println(i+":"+j);
                        }
                }
        }
}
```

A)
1:0
2:0
2:1
B)
0:1
0:2
1:0
1:2
2:0
2:1
C) It won't print anything.
D)
0:0
1:1
2:2

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Q40. Consider the code:

```java
class Test
{
        static public void main(String... durgastrings)
        {
                l1:
                for (int i = 0;i<3;i++ )
                {
                        for (int j=0;j<3;j++ )
                        {
                                if(i==j)
                                        continue l1;
                                System.out.println(i+":"+j);
                        }
                }
        }
}
```

A)
1:0
2:0
2:1
B)
0:1
0:2
1:0
1:2
2:0
2:1
C) It won't print anything.
D)
0:0
1:1
2:2

Q41. Consider the code:

```java
class Test
{
        static public void main(String... durgastrings)
        {
                int x = 0;
                do
                {
                        x++;
                        System.out.print(x);
                        if(++x<5)
                                continue;
                        x++;
                        System.out.print(x);
                }
                while (++x<10);
```

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```
        }
}
```

A) 146810
B) 135689
C) 1345781011
D) 14689
E) 1468

Q42. Consider the code:

```java
class Test
{
        static public void main(String... durgastrings)
        {
                int i =10;
                for(int j =0; j<3 ; j++)
                {
                        if(i==10)
                        {
                                break;
                                System.out.print("Hello-");
                        }
                        System.out.print("Hi-");
                }
                System.out.print("HelloHi");
        }
}
```

What is the result?
A) Hello-HelloHi
B) Hello-Hi-HelloHi
C) Compilation Fails.
D) Hello-

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