

Java Talent Test

Q1). Which of the following is invalid way of declaring array?

- A) `int[] a;`
- B) `int a[];`
- C) `int []a;`
- D) `int[5] a;`

Q2). Which of the following array declarations are valid?

- A) `int[] a,b;`
- B) `int[] a[],b;`
- C) `int[] []a,b;`
- D) `int[] a,[]b;`

Q3) Which of the following are valid?

- A) `int[] x = new int[];`
- B) `int[] x = new int[0];`
- C) `int[] x = new int[-10];`
- D) `int[] x = new int['a'];`
- E) `int[] x = new int[2147483648];`

Q4) Which of the following are valid declarations in java?

- A) `int[] x = new int[];`
- B) `int[][] x = new int[][];`
- C) `int[][] x = new int[3][4];`
- D) `int[][] x = new int[3][];`
- E) `int[][] x = new int[][4];`
- F) `int[][][] x = new int[3][4][5];`
- G) `int[][][] x = new int[3][4][];`
- H) `int[][][] x = new int[3][][];`
- I) `int[][][] x = new int[3][][5];`

Q5). Consider the code:

```
class Test
{
    public static void main(String[] args)
    {
        //Line-1
        s[0]="Sunny";
        s[1]="Bunny";
        s[2]="Chinny";
        System.out.println(s[0]+"-"+s[1]+"-"+s[2]);
    }
}
```

Which of the following required to place at Line-1 to print Sunny-Bunny-Chinny?

- A) `String[] s = new String[3];`
- B) `String[] s;`
`s=String[3];`

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C)

```
String s = new String[3];
```

D)

```
String[3] s;
```

Q6). Consider the code:

```
class Test
{
    public static void main(String[] args)
    {
        double[] d = new double[3];
        int j = 3;
        for (int i =0;i>j ;i++ )
        {
            d[i]=i;
        }
        for(double d1 : d)
        {
            System.out.print(d1+",");
        }
    }
}
```

A) 0.0,1.0,2.0,

B) 0.0,0.0,0.0,

C) Compilation Fails

D) An exception is thrown at runtime

Q7). Consider the code:

```
class Test
{
    public static void main(String[] args)
    {
        double[] d = new double[3];
        int j = 3;
        for (int i =0;i<j ;i++ )
        {
            d[i]=i;
        }
        for(double d1 : d)
        {
            System.out.print(d1+",");
        }
    }
}
```

A) 0.0,1.0,2.0,

B) 0.0,0.0,0.0,

C) Compilation Fails

D) An exception is thrown at runtime

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Q8) Consider the code:

```
class Course
{
    String name;
    double fee;
    Course(String name, double fee)
    {
        this.name = name;
        this.fee=fee;
    }
    public static void main(String[] args)
    {
        Course[] c = new Course[3];
        c[0] = new Course("Java",10000);
        c[2] = new Course("Python",20000);
        for(Course c1 : c)
        {
            System.out.println(c1.name+"."+c1.fee);
        }
    }
}
```

A)

Java:10000.0

null:0.0

Python:20000.0

B)

Java:10000.0

Python:20000.0

C) Compilation Fails

D) ArrayIndexOutOfBoundsException is thrown at runtime

E) NullPointerException is thrown at runtime

Q9). Consider the code:

```
class Test
{
    public static void main(String[] args)
    {
        int[][] evenodd=new int[2][2];
        for(int i =0;i<2&i%2==0;i++)
        {
            for(int j =0; j<2;j++)
            {
                evenodd[i][j]=j;
            }
        }
        for(int i =0; i>2 &i%2!=0;i++)
```

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```
        {
            for(int j =0; j<2;j++)
            {
                evenodd[i][j]=i;
            }
        }
    //Line-1
}
```

At line-1 content of array is:

A)

```
evenodd[0][0]=0
evenodd[0][1]=1
evenodd[1][0]=0
evenodd[1][1]=0
```

B)

```
evenodd[0][0]=0
evenodd[0][1]=1
evenodd[1][0]=0
evenodd[1][1]=1
```

C)

```
evenodd[0][0]=1
evenodd[0][1]=1
evenodd[1][0]=0
evenodd[1][1]=0
```

D)

```
evenodd[0][0]=1
evenodd[0][1]=0
evenodd[1][0]=1
evenodd[1][1]=0
```

Q10). Consider the code:

```
class Test
{
    public static void main(String[] args)
    {
        int[][] evenodd=new int[2][2];
        for(int i =0;i<2&i%2==0;i++)
        {
            for(int j =0; j<2;j++)
            {
                evenodd[i][j]=j;
            }
        }
        for(int i =0; i>2 &i%2!=0;i++)
```

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```
{
    for(int j =0; j<2;j++)
    {
        evenodd[i][j]=i;
    }
}
for(int[] x: evenodd)
{
    for(int y:x)
    {
        System.out.print(y);
    }
}
}
```

What is the result?

- A) 0100
- B) 0000
- C) 0123
- D) An Exception is thrown at runtime

Q11). Consider the code:

```
class Test
{
    static int[] x;
    public static void main(String[] args)
    {
        Line-1;
    }
}
```

At Line-1 which of the following can be inserted independently without raising compilation errors?

- A)x={10,20,30};
- B)x=new int[3];
- C)x= new int[3]{10,20,30};
- D)x = new int[] {10,20,30};

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Q12). Consider array declaration:

```
int[][][] a={{10,20,30},{40,50}},{60},{70,80},{90,100,110}};
```

Which of the following are lines will cause runtime exception?

- A) System.out.println(a[0][1][1]);
- B) System.out.println(a[1][0][2]);
- C) System.out.println(a[1][2][1]);
- D) System.out.println(a[1][2][2]);
- E) System.out.println(a[2][1][0]);
- F) System.out.println(a[1][1][1]);

Q13). Consider the code:

```
int[][] x = new int[6][3];  
System.out.println(x.length);
```

What is the result?

- A) 6
- B) 3
- C) 9
- D) 18

Q14). Consider the code:

```
String[] s = {"A","AA","AAA"};
```

Which of the following will results compile time error?

- A) System.out.println(s.length);//3
- B) System.out.println(s.length());//CE
- C) System.out.println(s[0].length());//CE
- D) System.out.println(s[0].length());//1

Q15). Consider the following code:

```
String[] s = {"A","AA","AAA"};  
System.out.println(s.length);//3  
System.out.println(s[0].length());//1
```

What is the result?

- A) 31
- B) 11
- C) 33
- D) Compilation Fails

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Q16). In which of the following cases, Array will be created and initialized with default values?

- A) `int[] x = new int[];`
- B) `int[] x = new int[3];`
- C) `int[] x = new int[3]{10,20,30};`
- D) `int[] x = new int[] {10,20,30};`

Q17) In which of the following cases we will get compile time error?

- A) `int[] x = new int[];`
- B) `int[] x = new int[3];`
- C) `int[] x = new int[3]{10,20,30};`
- D) `int[] x = new int[] {10,20,30};`

Q18) Consider the following code:

```
class Test
{
    public static void main(String[] args)
    {
        sum(new int[] {10,20,30});
    }
    public static void sum(int[] x)
    {
        int total=0;
        for(int x1:x)
        {
            total=total+x1;
        }
        System.out.println("The Sum:"+total);
    }
}
```

What is the result?

- A) Compilation Fails
- B) An exception is thrown at runtime
- C) The Sum:0
- D) The Sum:60

Q19). Which of the following declarations are valid?

- A) `Runnable r = new Runnable();`
- B) `Runnable[] r = new Runnable[10];`
- C) `List l = new List();`
- D) `List[] l = new List[10];`

Q20). Which of the following are TRUE?

- A. We can create arrays of primitive type but not object type.
- B. We can create only concrete class type arrays but not abstract class type arrays.
- C. We can create only class type arrays but not interface type arrays.
- D. None of these

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Q21). We are representing tic tac game table by using 2 dimensional array. Currently table looks like:

```
String[][] tictac= new String[3][3];  
table
```

O	O	X
X	X	
	O	

To get 3 consecutive X's which of the following declaration required to win the game?

- A) tictak[2][0]="X";
- B) tictak[2][1]="X";
- C) tictak[1][2]="X";
- D) tictak[2][2]="X";

Q22). Consider the code:

```
int[] a = {10,20,30};  
char[] ch ={'a','b','c'};  
int[] b = a; //Line-1  
int[] c = ch; //Line-2
```

Choose correct statement from the following?

- A) Only Line-1 is valid
- B) Only Line-2 is valid
- C) Both Line-1 and Line-2 are valid
- D) Both Line-1 and Line-2 are invalid

Q23). Which of the following conversions will be performed automatically?

- A. char ---> int
- B. char[] ---> int[]
- C. int ---> long
- D. int[] ---> long[]
- E. double ---> float
- F. double[] ---> float[]
- G. String ---> Object
- H. String[] ---> Object[]

Q24). Consider array declaration:

```
Object[] a = new String[3];  
which of the following assignments will cause compile time error?
```

- A) a[0] = new Object();
- B) a[1] = new Integer(10);
- C) a[2]= new StringBuffer("durga");
- D) None of these

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Q25). Consider the code:

```
class Test
{
    public static void main(String[] args)
    {
        Object[] a = new String[3];
        a[0] = new Object(); //Line-1
        a[1] = new String("durga");//Line-2
    }
}
```

Which of the following are valid?

- A) At Line-1 we will get compile time error.
- B) At Line-2 we will get compile time error.
- C) An exception is thrown at runtime at Line-1.
- D) An exception is thrown at runtime at Line-2.

Q26). Consider the code?

```
int[] a = {10,20,30,40,50};
int[] b = {60,70};
//Line-1
```

Which of the following code can be inserted at Line-1 independently?

- A) a=b;
- B) b=a;
- C) None of these are allowed
- D) Both of these are allowed independently

Q27). Consider the code:

```
class Test
{
    public static void main(String[] args)
    {
        int[] a = {10,20,30,40,50};
        int[] b = {60,70};
        b = a;
        for(int x : b)
        {
            System.out.print(x+"-");
        }
    }
}
```

- A) Compilation Fails
- B) An exception is thrown at runtime
- C) 60-70-
- D) 10-20-30-40-50-

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Q28). Consider the code:

```
int[][] a = new int[3][];
```

Which of the following assignments are valid?

- A. a[0]= new int[4][5];
- B. a[0]=10;
- C. a[0]=new int[4];
- D. None of these

Q29). Consider the code:

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

```
java Test X Y Z
```

What is the result?

- A) Compilation Fails
- B) An exception is thrown at runtime
- C) XYZ
- D) AB

Q30). Consider the code:

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

```
java Test X Y Z
```

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What is the result?

- A) Compilation Fails
- B) An exception is thrown at runtime
- C) XYZ
- D) AB

Q31). Consider the code:

```
class Test
{
    public static void main(String[] args)
    {
        String[] argh={"A","B"};
        args=argh;
        System.out.print(args.length);
        System.out.print(argh.length);
    }
}
java Test X Y Z
```

- A) Compilation Fails
- B) An exception is thrown at runtime
- C) 22
- D) 33

Q32). Consider the code:

```
int[][] a = new int[3][2];
a[0] = new int[3];
a[1]= new int[4];
a = new int[4][3];
```

Once we execute this code, how many total objects will be created?

- A) 4
- B) 16
- C) 10
- D) 11

Q33). Consider the code:

```
int[][] a = new int[3][2];
a[0] = new int[3];
a[1]= new int[4];
a = new int[4][3];
```

Once we execute this code, how many objects eligible for Garbage collection?

- A) 4
- B) 5
- C) 6
- D) 7

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Q34). In which of the following cases we will get compile time error?

- A) var x = new int[]{10,20,30,40};
- B) var x = new Integer[]{10,20,30,40};
- C) var x = {10,20,30,40};
- D) var x = [10,20,30,40];
- E) var x = (10,20,30,40);

Q35). Consider the code:

```
class Parent
{
}
class Child1 extends Parent
{
}
class Child2 extends Parent
{
}
class Test
{
    public static void main(String[] args)
    {
        Parent[] p = new Child1[10];
        p[0]=new Child1();//Line-1
        p[1]=new Child2();//Line-2
    }
}
```

- A) Compilation Fails at Line-1
- B) Compilation Fails at Line-2
- C) A runtime exception is thrown at Line-1
- D) A runtime exception is thrown at Line-2