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Q>

Given

```
3. public class Spock {  
4.     public static void main(String[] args) {  
5.         int mask = 0;  
6.         int count = 0;  
7.         if( ((5<7) || (++count < 10)) | mask++ < 10 ) mask = mask + 1;  
8.         if( (6 > 8) ^ false) mask = mask + 10;  
9.         if(!(mask > 1) && ++count > 1) mask = mask + 100;  
10.        System.out.println(mask + " " + count);  
11.    }  
12. }
```

Which two are true about the value of mask and the value of count at line 10?
(Choose two.)

- A. mask is 0
- B. mask is 1
- C. mask is 2
- D. mask is 10
- E. mask is greater than 10
- F. count is 0
- G. count is greater than 0

count = 0

mask = 2

Answer: C,F

Which of the following declarations are invalid?

- 1) int[] a=new int[];
- 2) int[][] a=new int[3][4];
- 3) int[][] a=new int[3][];
- 4) int[][] a=new int[][4];
- 5) int[][][] a=new int[3][4][5];
- 6) int[][][] a=new int[3][4][];
- 7) int[][][] a=new int[3][][5];

Answer: 1,4,7(invalid: beocz of dimension missing)

What is the output of this code?

```
int[] a=new int[3];  
System.out.println(a);  
System.out.println(a[0]);
```

- A. CE
- B. [I@...
0
- C. Some problem at the runtime
- D. [I@..
null

Answer: B

What is the output of this code?

```
int[][] a =new int[3][2];  
System.out.println(a);
```

```
System.out.println(a[0]);
System.out.println(a[0][0]);
```

- A. CE
- B. [I@...
[[I@...
0
- C. Some problem at the runtime
- D. [[I@..
[I@...
0
- E. D. [[I@..
[I@...
null

Answer: D

Predict the output

```
int[][] a=new int[2][];
System.out.println(a);
System.out.println(a[0]);
System.out.println(a[0][0]);
```

- A. Compile time error
- B. 0
[I@...
0
- C. [[I@...
null
0
- D. [[I@...
[I@...
0
- E.C. [[I@...
null
NullPointerException

Answer: E

For the above code predict how many objects are created and how many are eligible for garbage collection?

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

- A. object created = 3
eligible for gc = 3
- B. object created = 11
eligible for gc = 6
- C. object created = 10
eligible for gc = 5
- D. object created = 10
eligible for gc = 10
- E. None of the above

Answer: B

What is the nature of the following code?

```
class Test {  
    int[] a; //instance variable -> memory will be created during object creation  
    and default value by JVM  
    public static void main(String[] args) {  
        Test t1=new Test();  
        System.out.println(t1.a);  
        System.out.println(t1.a[0]);  
    }  
}
```

- A. Compile Time Error
- B. 0
- C. [I@...
0
- D. null
ArrayIndexOutOfBoundsException
- E. null
NullPointerException

Answer: E

Q> Here a is declared at instance level

```
int[] a=new int[3];  
System.out.println(obj.a);  
System.out.println(obj.a[0])
```

- A. Compile Time Error
- B. 0
- C. [I@...
0
- D. null
ArrayIndexOutOfBoundsException
- E. null
NullPointerException

Answer: C

Q> Predict the nature of the following code

```
class Test {  
    public static void main(String[] args) {  
        int[] a; //local variable -> can't be used without initialization  
        System.out.println(a);  
        System.out.println(a[0]);  
    }  
}
```

- A. Compile Time Error
- B. 0
- C. [I@...
0
- D. null
ArrayIndexOutOfBoundsException
- E. null
NullPointerException

Answer: A

