


Arrays

1. 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[];  
}
```



No.	Answers	Correct
1	a	
2	b	
3	c	
4	d	

Explanation:

No size specification in array declaration Bottom of Form

2. What is true after running the following code? (choose 2)

```
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);  
}
```


No.	Answers	Correct
1	An Exception will be thrown	
2	0 will be printed as part of the output	
3	2 will be printed as part of the output	
4	3 will be printed as part of the output	

Explanation:

An `ArrayIndexOutOfBoundsException` would be thrown when `count == 2`


3. 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  
}
```

No.	Answers	Correct
1	A. 1 2 3	
2	B. Compilation fails because of an error in line 12.	
3	C. Compilation fails because of an error in line 13.	
4	D. Compilation fails because of an error in line 14.	
5	E. A <code>ClassCastException</code> is thrown at runtime.	


4. 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);
    }
}
```

No.	Answers	Correct
1	225	
2	255	
3	200	
4	222	

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

```
public static void main(String[] args){
    byte b1= 25;
    byte b2=45;
    byte b3= b1+b2;
}
```


No.	Answers	Correct
1	a)70	
2	b)CompileError	
3	c)25	
4	d)RunTimeException	

Explanation:

JVM automatically converts the result to the integer, So integer can't store into the byte so, It gets compile error


6. 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);
}
```

No.	Answers	Correct
1	0	
2	Compilation error, arrays cannot be initialized to zero size	
3	Compilation error, it is a.length() not a.length	

7. 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");  
    }  
}
```

No.	Answers	Correct
1	Compilation error	
2	ArrayIndexOutOfBoundsException is thrown	
3	javachamp	
4	No output is produced	

Explanation:

Allowed indexes for array x are from 0 to 4, else ArrayIndexOutOfBoundsException is thrown
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