

# DSA - Mock Test 1 - JAVA

This test includes DSA topics of Arrays, 2D Arrays and Strings in Java

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\* Indicates required question

Email \*

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1. State True or False : Java is platform independent programming language

\* 1 point

- ☒ True
- ☐ False

2. Which component executes java program ? \*

1 point

- ☐ JRE
- ☒ JVM
- ☐ JIT
- ☐ JDK



3. What is the output of the following code ? \*

1 point

```
public static void main(String args[]) {  
  
    {  
        int y = 6;  
    }  
    System.out.println(y);  
}
```

- ☐ Option 1
- ☐ 0
- ☒ Compilation error
- ☐ Runtime error

4. What is the output of the following code ? \*

1 point

```
public static void main (String[] args) {  
  
    int x = 3;  
    int y = 4;  
  
    System.out.println(++x + y++ + ++y);  
}
```

- ☐ 11
- ☐ 12
- ☐ 13
- ☒ 14



5. What will be the output of the following code ? \*

1 point

```
public static void main (String[] args) {  
  
    String s = "abcd";  
  
    System.out.print(s[0]);  
  
}
```

- ☐ a
- ☐ b
- ☐ d
- ☒ Error

6. Which one is lexicographically greatest among the following ? \*

1 point

- ☐ 1
- ☐ 10
- ☐ 20
- ☒ 2



7. What is the output for the following code? \*

1 point

```
class Main
{
    public static int func (int n)
    {
        if (n == 1)
            return 1;

        return ( n * func(n-1) )/2;
    }

    public static void main(String args[])
    {
        System.out.print( func( 5 ) );
    }
}
```

- ☒ 5
- ☐ 10
- ☐ 1
- ☐ 4



8. What is the output for the following code? \*

1 point

```
public class MyClass {  
  
    public static String func(String str)  
    {  
        if ((str==null)|| (str.length() <= 1))  
            return str;  
  
        else  
        {  
            String r = func(str.substring(1,str.length()));  
            return r + str.charAt(0) ;  
        }  
    }  
  
    public static void main(String[] args)  
    {  
        String str = ""Ael123"";  
  
        System.out.print( func(str) );  
    }  
}
```

- ☐ Ael123
- ☒ 321leA
- ☐ Compilation error
- ☐ Runtime Error



9. What is the space complexity of the above code ? \*

1 point

- ☒  $O(N)$
- ☐  $O(\log(N))$
- ☐  $O(1)$
- ☐ None of these

10. What is the time complexity of the given function : \*

1 point

```
public static String func(int arr[] , int st, int en)
{
    if( st == en ){

        System.out.print( arr[ st ] );

        return;
    }

    int mid = (st+en)/2;

    System.out.print( arr[mid] );

    func(arr, st, mid - 1 );

    func( arr, mid + 1, en );

}
```

- ☒  $O(\log(N))$
- ☐  $O(N*\log(N))$
- ☐  $O(N)$
- ☐ None of these

