

# DSA - Mock Test 1 - Python

This test includes DSA topics of Arrays, 2D Arrays, Strings, Recursion in Python

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\* Indicates required question

Email \*

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

\* 1 point



True



False

2. Python is a \_\_\_\_\_ language. \*

1 point



Compiled



Interpreted



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

1 point

```
arr = [ 1, 4, 5, 2, 3 ]  
print( arr[-1] )
```

- ☐ 2
- ☐ 4
- ☒ 3
- ☐ Runtime error

4. Which of the following is correct in python for the given variable ? \*

1 point

x = 1

Options :

- I. x += 1
- II. x++
- III. ++x
- IV. x = x + 1

- ☐ I and II
- ☐ II and III
- ☐ II and IV
- ☒ I and IV



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

1 point

```
s = "abdce"  
print ( s[ 2 : -1 ]"
```

- ☐ d
- ☒ dc
- ☐ dce
- ☐ c

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

```
def func(n):  
    if n == 1 :  
        return 2  
  
    return n*func(n-1) // 2  
print(func(5))
```

- ☐ 5
- ☒ 15
- ☐ 1
- ☐ 10



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

1 point

```
def func(s):  
  
    if len(s) <= 1:  
        return s  
  
    return func(s[ 2 : ]) + s[0]  
print( func( ""Ael123"" ) )
```

- ☐ Ael123
- ☐ 21IA
- ☐ 2AI
- ☒ 2IA

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

```
def func(arr , start, end) :
```

```
    if start == end :
```

```
        print( arr[ start ] );
```

```
    return;
```

```
    mid = (start + end)//2;
```

```
    print( arr[mid] );
```

```
    func(arr, start, mid - 1 );
```

```
    func( arr, mid + 1, end );
```

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

Next

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