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**NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Programming, Data Structures And Algorithms Using Python (course)**



## Sample Online Test Question 1

Due on 2021-03-09, 23:59 IST

### Course outline

**How does an NPTEL online course work? ()**

**Week 1 : Introduction ()**

**Week 1 Quiz ()**

**Week 2: Basics of Python ()**

**Week 2 Quiz ()**

**Week 2 Programming Assignment ()**

**Week 3: Lists, inductive**



function  
definitions,  
sorting ()

Week 3  
Programming  
Assignment  
()

Week 4:  
Sorting,  
Tuples,  
Dictionaries,  
Passing  
Functions,  
List  
Comprehension  
()

Week 4 Quiz  
()

Week 4  
Programming  
Assignment  
()

Week 5:  
Exception  
handling,  
input/output,  
file handling,  
string  
processing ()

Week 5  
Programming  
Assignment  
()

Week 6:  
Backtracking,  
scope, data  
structures;  
stacks,  
queues and  
heaps ()

Week 6 Quiz  
()

# Instructions

There will be two online programming tests on 9 March, 2021. This is a sample test to explain what the actual test will look like.

- These tests account for 25% of the total evaluation for the course.
- The duration of the test is 2 hours.
- The first test will be from 10:00 am–12:00 noon and the second from 8:00 pm–10:00 pm, on Tuesday, 9 March, 2021.
- You can attempt one or both of the tests. The best score will be counted..

**Note:** In this question, you have to understand the code that is given and provide a testcase as explained in the problem statement.

## Question 1

Here is an function to return the maximum value among three positive integers. There is an error in this function. Provide an input triple (n1,n2,n3), where n1, n2 and n3 are all positive integers, for which max3bad produces an incorrect output.

```
def max3bad(x,y,z):  
    maximum = 0  
    if x >= y:  
        if x >= z:  
            maximum = x  
    elif y >= z:  
        maximum = y  
    else:  
        maximum = z  
    return(maximum)
```

Open up the code submission box below and write your test case where you would normally paste your code. Your input should be in the form of triple (n1,n2,n3), where n1, n2 and n3 are all positive integers.

### Sample Test Cases

	Input	Output
Test Case 1	<input type="text"/>	<input type="text" value="True"/>
Test Case 2	<input type="text"/>	<input type="text" value="True"/>

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.



**Week 7:  
Classes,  
objects and  
user defined  
datatypes ()**

**Week 7 Quiz  
()**

**Week 8:  
Dynamic  
programming,  
wrap-up ()**

**Week 8  
Programming  
Assignment  
()**

**Text  
Transcripts ()**

**Books ()**

**Download  
Videos ()**

**Online  
Programming  
Test -  
Sample ()**

☐ **Sample  
Online Test  
Question 1  
(/noc20\_cs26/progassignment?  
name=118)**

☐ Sample Online  
Test Question  
2  
(/noc20\_cs26/progassignment?  
name=119)

☐ Sample Online  
Test Question  
3  
(/noc20\_cs26/progassignment?  
name=120)

☐ Sample Online  
Test Question  
4  
(/noc20\_cs26/progassignment?  
name=121)



☐ Sample Online  
Test Question  
5  
(/noc20\_cs26/progassignment?  
name=122)

☐ Sample Online  
Test Question  
6  
(/noc20\_cs26/progassignment?  
name=123)

☐ Sample Online  
Test Question  
7  
(/noc20\_cs26/progassignment?  
name=124)

☐ Sample Online  
Test Question  
8  
(/noc20\_cs26/progassignment?  
name=125)

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**Online  
Programming  
Test 1, 01  
Dec 2020,  
10:00-12:00  
()**

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**Online  
Programming  
Test 2, 01  
Dec 2020,  
20:00-22:00  
()**

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**Online  
Programming  
Test 1, 09  
Mar 2021,  
10:00-12:00  
()**

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**Online  
Programming  
Test 2, 09  
Mar 2021,  
20:00-22:00  
()**



