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

[Announcements \(announcements\)](#)

**About the Course ([https://swayam.gov.in/nd1\\_noc19\\_cs40/preview](https://swayam.gov.in/nd1_noc19_cs40/preview))**    [Ask a Question \(forum\)](#)

[Progress \(student/home\)](#)    [Mentor \(student/mentor\)](#)

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# Online Test 1, Question 3

**Due on 2019-09-26, 11:30 IST**

Course  
outline

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**How to access  
the portal**

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**Week 1:  
Introduction**

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**Week 1 Quiz**

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**Week 2:  
Basics of  
Python**

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**Week 2 Quiz**

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**Week 2  
Programming  
Assignment**

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**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

Week 7:  
Classes,  
objects and  
user defined  
datatypes

Week 7 Quiz

# Instructions

This is the first of two online programming tests.

- 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 9:30-11:30 am and the second from 8:00-10:00 pm, on Thursday, 26 September 2019.
- You can attempt either of the tests. The best score will be counted..

## Question 3

Here is a function to compute the largest of four input integers. You have to fill in the missing lines.

```
def max4(w,x,y,z):  
    if w >= x and w >= y and w >= z:  
        maximum = w  
    # Your code below this line  
  
    # Your code above this line  
    return(maximum)
```

Open up the code submission box below and fill in the gap in the code. Ensure that you maintain correct indentation.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	max4(1, 3, 4, 2)	4\n	4\n	Pas sed
Test Case 2	max4(4, 1, 3, 2)	4\n	4\n	Pas sed
Test Case 3	max4(3, 1, 2, 4)	4\n	4\n	Pas sed
Test Case 4	max4(2, 3, 4, 1)	4\n	4\n	Pas sed

Due Date Exceeded.  
4 out of 4 tests passed.  
You scored 100.0/100.

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

**Week 8  
Programming  
Assignment**

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**Text  
Transcripts**

**Online  
Programming  
Test - Sample**

**Online  
Programming  
Test 1, 26 Sep  
2019, 09:30-  
11:30**

- ☐ Online Test 1,  
Question 1  
(/noc19\_cs40/progassignment?  
name=113)
- ☐ Online Test 1,  
Question 2  
(/noc19\_cs40/progassignment?  
name=114)
- ☒ **Online Test 1,  
Question 3  
(/noc19\_cs40/progassignment?  
name=115)**
- ☐ Online Test 1,  
Question 4  
(/noc19\_cs40/progassignment?  
name=116)
- ☒ Online Test 1,  
Question 5  
(/noc19\_cs40/progassignment?  
name=117)
- ☒ Online Test 1,  
Question 6  
(/noc19\_cs40/progassignment?  
name=118)

Your last recorded submission was :

```
1 def max4(w,x,y,z):
2     if w >= x and w >= y and w >= z:
3         maximum = w
4         # Your code below this line
5     elif x >= y and x >= z:
6         maximum = x
7     elif y >= z:
8         maximum = y
9     else:
10        maximum = z
11    # Your code above this line
12    return(maximum)
13
14 import ast
15
16 def totripleint(inp):
17     inp = "[" + inp + "]"
18     inp = ast.literal_eval(inp)
19     return(inp)
20
21 fncall = input()
22 lparen = fncall.find("(")
23 rparen = fncall.rfind(")")
24 fname = fncall[lparen]
25 farg = fncall[lparen+1:rparen]
26
27 if fname == "max4":
28     arglist = totripleint(farg)
29     print(max4(arglist[0],arglist[1],arglist[2],arglist[3]))
30
31
```

● Online Test 1,  
Question 7  
(/noc19\_cs40/progassignment?  
name=119)

● Online Test 1,  
Question 8  
(/noc19\_cs40/progassignment?  
name=120)