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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) [Ask a Question \(forum\)](#)

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

Online Test 2, Question 3

Due on 2019-09-26, 22:00 IST

Course
outline

How to access
the portal

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

Week 7:
Classes,
objects and
user defined
datatypes

Week 7 Quiz

Instructions

This is the second 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 was from 9:30-11:30 am and the second is 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 third smallest value in a list of **distinct integers**. All the integers are guaranteed to be below 1000000. You have to fill in the missing lines. You can assume that there are at least three numbers in the list.

```
def thirdmin(l):  
    (mymin,mysecondmin,mythirdmin) = (1000000,1000000,1000000)  
    for i in range(len(l)):  
        # Your code below this line  
  
        # Your code above this line  
    return(mythirdmin)
```

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	thirdmin([-1,-2,-3,-4])	-2\n	-2 \n	Pas sed
Test Case 2	thirdmin([10,-1,8,-2,0])	0\n	0\n	Pas sed
Test Case 3	thirdmin([13,12,2,17,3,6,8,5,18,-5,6,22])	3\n	3\n	Pas sed
Test Case 4	thirdmin([3,1,2])	3\n	3\n	Pas sed

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

**Week 8
Programming
Assignment**

**Download
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Transcripts**

**Online
Programming
Test - Sample**

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

**Online
Programming
Test 2, 26 Sep
2019, 20:00-
22:00**

- Online Test 2,
Question 1
(/noc19_cs40/progassignment?
name=121)
- Online Test 2,
Question 2
(/noc19_cs40/progassignment?
name=122)
- Online Test 2,
Question 3
(/noc19_cs40/progassignment?
name=123)
- Online Test 2,
Question 4
(/noc19_cs40/progassignment?
name=124)
- Online Test 2,
Question 5

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

Your last recorded submission was :

```
1 def thirdmin(l):
2     (mymin,mysecondmin,mythirdmin) = (1000000,1000000,1000000)
3     for i in range(len(l)):
4         # Your code below this line
5         curr_num = l[i]
6         while curr_num < l[i-1] and i-1>=0:
7             l[i-1], l[i] = l[i],l[i-1]
8             i-=1
9         else:
10            mythirdmin = l[2]
11
12        # Your code above this line
13        return(mythirdmin)
14
15 import ast
16
17 def tolist(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 == "thirdmin":
28     arg = tolist(farg)
29     print(thirdmin(arg))
30
31
```

(/noc19_cs40/progassignment?
name=125)

● Online Test 2,
Question 6
(/noc19_cs40/progassignment?
name=126)

● Online Test 2,
Question 7
(/noc19_cs40/progassignment?
name=127)

● Online Test 2,
Question 8
(/noc19_cs40/progassignment?
name=128)

● Online
Programming
Test 2, 26 Sep
2019, 20:00-
22:00 (unit?
unit=111&lesson=129)