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


## 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

# Online Test 2 Question 3

Due on 2020-12-01, 22:00 IST

## 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.

### Sample Test Cases

	Input	Output
Test Case 1	thirdmin([-1,-2,-3,-4])	-2
Test Case 2	thirdmin([10,-1,8,-2,0])	0
Test Case 3	thirdmin([13,12,2,17,3,6,8,5,18,-5,6,22])	3

<b>function definitions, sorting ()</b>
<b>Week 3 Programming Assignment ()</b>
<b>Week 4: Sorting, Tuples, Dictionaries, Passing Functions, List Comprehension ()</b>
<b>Week 4 Quiz ()</b>
<b>Week 4 Programming Assignment ()</b>
<b>Week 5: Exception handling, input/output, file handling, string processing ()</b>
<b>Week 5 Programming Assignment ()</b>
<b>Week 6: Backtracking, scope, data structures; stacks, queues and heaps ()</b>
<b>Week 6 Quiz ()</b>

Test Case 4	thirdmin([3,1,2])	3
Test Case 5	thirdmin([4,1,3,2])	3
Test Case 6	thirdmin([13,12,2,17,3,6,8,5])	5

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 ()**

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

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

☐ [Instructions  
\(unit?  
unit=128&lesson=129\)](#)

☐ [Online Test 2  
Question 1](#)

(/noc20\_cs26/progassignment?  
name=130)

☐ Online Test 2  
Question 2  
(/noc20\_cs26/progassignment?  
name=133)

☐ **Online Test 2**  
**Question 3**  
**(/noc20\_cs26/progassignment?**  
**name=135)**

☐ Online Test 2  
Question 4  
(/noc20\_cs26/progassignment?  
name=141)

☐ Online Test 2  
Question 5  
(/noc20\_cs26/progassignment?  
name=142)

☐ Online Test 2  
Question 6  
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name=143)

☐ Online Test 2  
Question 7  
(/noc20\_cs26/progassignment?  
name=145)

☐ Online Test 2  
Question 8  
(/noc20\_cs26/progassignment?  
name=146)

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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  
( )**

