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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 1

Due on 2021-03-09, 22:00 IST

Question 1

Here is an function to return the minimum value in a list. There is an error in this function. Provide an input list for which minbad produces an incorrect output.

```
def minbad(l):
    mymin = l[-len(l)]
    for i in range(-len(l),-1):
        if l[i] < mymin:
            mymin = l[i]
    return(mymin)
```

Sample Test Cases

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

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.
Sample solutions (Provided by instructor)

```
1 myinput=''
2 [4,3,2,1]
3 '''
4
5 def minbad(l):
6     mymin = l[-len(l)]
```

| |
|--|
| 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 () |

```
7   for i in range(-len(l),-1):
8       if l[i] < mymin:
9           mymin = l[i]
10      return(mymin)
11
12  import ast
13
14  try:
15      myarg = ast.literal_eval(myinput.strip())
16  except:
17      print(False)
18  else:
19      try:
20          print(minbad(myarg) != min(myarg))
21      except:
22          print(False)
23
```

**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
()**

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

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

☐ **Online Test 2,
Question 1
(/noc20_cs26/progassignment?
name=160)**

☐ Online Test 2,
Question 2
(/noc20_cs26/progassignment?
name=161)

☐ Online Test 2,
Question 3
(/noc20_cs26/progassignment?
name=162)

☐ Online Test 2,
Question 4
(/noc20_cs26/progassignment?
name=163)

☐ Online Test 2,
Question 5
(/noc20_cs26/progassignment?
name=164)

☐ Online Test 2,
Question 6
(/noc20_cs26/progassignment?
name=165)

☐ Online Test 2,
Question 7
(/noc20_cs26/progassignment?
name=166)

☐ Online Test 2,
Question 8
(/noc20_cs26/progassignment?
name=167)