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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 1 Question 2

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

Question 2

Here is a function `lexsortbad` that takes a list of pairs of integers as input and returns them in lexicographically sorted order (i.e., dictionary order). There is an error in this function. Provide an input for which `lexsortbad` produces an incorrect output. Your input should be a list of pairs of integers of the form $[(i_1, j_1), (i_2, j_2), \dots, (i_n, j_n)]$.

```
def lexsortbad(l):
    for k in range(2):
        for j in range(len(l)-1):
            for i in range(len(l)-1):
                if l[i][k] > l[i+1][k]:
                    (l[i], l[i+1]) = (l[i+1], l[i])
    return(l)
```

Open up the code submission box below and write your test case where you would normally paste your code. Your input should be a list of pairs of integers of the form $[(i_1, j_1), (i_2, j_2), \dots, (i_n, j_n)]$.

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.

**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
()**

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
()**

- ☒ Instructions
(unit?
unit=126&lesson=127)
 - ☐ Online Test 1
Question 1
(/noc20_cs26/progassignment?
name=131)
 - ☐ Online Test 1
Question 2
(/noc20_cs26/progassignment?
name=132)
-

☐ Online Test 1
Question 3
(/noc20_cs26/progassignment?
name=134)

☐ Online Test 1
Question 4
(/noc20_cs26/progassignment?
name=136)

☐ Online Test 1
Question 5
(/noc20_cs26/progassignment?
name=137)

☐ Online Test 1
Question 6
(/noc20_cs26/progassignment?
name=138)

☐ Online Test 1
Question 7
(/noc20_cs26/progassignment?
name=139)

☐ Online Test 1
Question 8
(/noc20_cs26/progassignment?
name=140)

**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
()**

