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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 1, Question 2

Due on 2019-09-26, 11:30 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 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..

Note: In this question, you have to understand the code that is given and provide a testcase as explained in the problem statement.

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 `[(i1,j1),(i2,j2),...,(in,jn)]`.

```
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 `[(i1,j1),(i2,j2),...,(in,jn)]`.

Sample Test Cases

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

Due Date Exceeded.

As per our records you have not submitted this assignment.

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

**Week 8
Programming
Assignment**

**Download
videos**

**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)

- Online Test 1,
Question 7
(/noc19_cs40/progassignment?
name=119)

- Online Test 1,
Question 8
(/noc19_cs40/progassignment?
name=120)