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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 2

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

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

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 2

Here is a function stablesortbad that takes a list of pairs of integers as input and sorts them by the second coordinate in each pair. A *stable sort* preserves the order of pairs that have an equal second coordinate. This is not a stable sort. Provide an input for which stablesortbad produces an output that is not stably sorted. Your input should be a list of pairs of integers of the form [(i1,j1),(i2,j2),...,(in,jn)].

```
def stablesortbad(l):
    for j in range(len(l)-1):
        for i in range(len(l)-1):
        if l[i][1] >= l[i+1][1]:
          (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)].

Private Test cases used for evaluation	Input Expected Output		Actual Output	Status
Test Case 1		True\n	True\n	Pass ed

Due Date Exceeded. 1 out of 1 tests passed. You scored 100.0/100.

Your last recorded submission was :

```
myinput = '''
2 [(1,2),(3,1),(7,2),(0,4),(3,2)]
3
4
5 def stablesortbad(l):
6 for j in range(len(l)-1):
```

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 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

(/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, 20:0022:00 (unit?
 unit=111&lesson=129)