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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 2

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

## 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)]`.

### 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 ()**

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**Week 3  
Programming  
Assignment  
()**

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**Week 4:  
Sorting,  
Tuples,  
Dictionaries,  
Passing  
Functions,  
List  
Comprehension  
()**

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**Week 4 Quiz  
()**

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**Week 4  
Programming  
Assignment  
()**

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**Week 5:  
Exception  
handling,  
input/output,  
file handling,  
string  
processing ()**

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**Week 5  
Programming  
Assignment  
()**

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**Week 6:  
Backtracking,  
scope, data  
structures;  
stacks,  
queues and  
heaps ()**

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**Week 6 Quiz  
()**

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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)

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☐ 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  
(/noc20\_cs26/progassignment?  
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  
()**

