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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 4

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

Question 4

A list is a non-decreasing if each element is at least as big as the preceding one. For instance `[]`, `[7]`, `[8, 8, 11]` and `[3, 19, 44, 44, 63, 89]` are non-decreasing, while `[3, 18, 4]` and `[23, 14, 3, 14, 3, 23]` are not. Here is a recursive function to check if a list is non-decreasing. You have to fill in the missing argument for the recursive call.

```
def nondecreasing(l):
    if l==[] or len(l) == 1:
        return(True)
    else:
        return(...)
```

Open up the code submission box below and fill in the missing argument for the recursive call.

Sample Test Cases

	Input	Output
Test Case 1	<code>nondecreasing([17])</code>	True
Test Case 2	<code>nondecreasing([])</code>	True
Test Case 3	<code>nondecreasing([3, 19, 44, 44, 63, 89])</code>	True
Test Case 4	<code>nondecreasing([23, 14, 3, 14, 3, 23])</code>	False

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 ()

Test Case 5

nondecreasing([8,8,11])

True

Test Case 6

nondecreasing([3,18,4])

False

The due date for submitting this assignment has passed.
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
()**

