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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)

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**

Online Test 1, Question 4

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

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 complete the code provided, as explained in the problem statement.

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	`nondecreasing([17])`	`True`
Test Case 2	`nondecreasing([])`	`True`
Test Case 3	`nondecreasing([3,19,44,44,63,89])`	`True`
Test Case 4	`nondecreasing([23,14,3,14,3,23])`	`False`

Test Case 5	`nondecreasing([8,8,11])`	`True`
Test Case 6	`nondecreasing([3,18,4])`	`False`

Due Date Exceeded.
As per our records you have not submitted this assignment.

- Online Test 1, Question 7 (/noc19_cs40/progassignment?name=119)
- Online Test 1, Question 8 (/noc19_cs40/progassignment?name=120)