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**NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Programming, Data Structures And Algorithms Using Python (course)**



## Sample Online Test Question 4

Due on 2021-03-09, 23:59 IST

### 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**

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 ()

# Instructions

There will be two online programming tests on 9 March, 2021. This is a sample test to explain what the actual test will look like.

- 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 10:00 am–12:00 noon and the second from 8:00 pm–10:00 pm, on Tuesday, 9 March, 2021.
- You can attempt one or both 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 palindrome if it reads the same forwards and backwards. For instance [], [7], [8, 11, 8] and [19, 3, 44, 44, 3, 19] are palindromes, while [3, 18, 4] and [23, 14, 3, 14, 3, 23] are not. Here is a recursive function to check if a list is a palindrome. You have to fill in the missing argument for the recursive call.

```
def mypalindrome(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	mypalindrome([14,13,14])	True
Test Case 2	mypalindrome([2,4,4,2])	True
Test Case 3	mypalindrome([2,3])	False
Test Case 4	mypalindrome([32,32,12,32,43])	False
Test Case 5	mypalindrome([13,14,13])	True
Test Case 6	mypalindrome([22,16,16,22])	True

**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 ()**

- ☐ Sample Online  
Test Question  
1  
(/noc20\_cs26/progassignment?  
name=118)
- ☐ Sample Online  
Test Question  
2  
(/noc20\_cs26/progassignment?  
name=119)
- ☐ Sample Online  
Test Question  
3  
(/noc20\_cs26/progassignment?  
name=120)
- ☐ Sample  
Online Test  
Question 4  
(/noc20\_cs26/progassignment?  
name=121)

Test Case 7

mypalindrome([13,12,12])

False

Test Case 8

mypalindrome([12,22,12,22])

False

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

☐ Sample Online  
Test Question  
5  
(/noc20\_cs26/progassignment?  
name=122)

☐ Sample Online  
Test Question  
6  
(/noc20\_cs26/progassignment?  
name=123)

☐ Sample Online  
Test Question  
7  
(/noc20\_cs26/progassignment?  
name=124)

☐ Sample Online  
Test Question  
8  
(/noc20\_cs26/progassignment?  
name=125)

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**Online  
Programming  
Test 1, 01  
Dec 2020,  
10:00-12:00  
()**

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**Online  
Programming  
Test 2, 01  
Dec 2020,  
20:00-22:00  
()**

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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  
()**

