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



Sample Online Test Question 6

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 write a Python function. Your function should return the value specified in the problem description. Do not print any messages or diagnostic information. Your code will be evaluated automatically by comparing your program's output with the expected output, so any spurious output from your program will cause your answer to be reported as wrong. You can assume that inputs to your functions will be of the correct type, as specified in the question.

There are some "public" test cases where you can see how your program does when you use "Compile and Run". Finally, you should "Submit" your code for evaluation. Your solution will be checked against "private" test cases, which you cannot see. You will get a score on 100 based on how many private test cases you solve correctly.

Question 6

Write a Python function `sublist(l1,l2)` that takes two **sorted** lists as arguments and returns True if the the first list is a sublist of the second list, and returns False otherwise.

A sublist of a list is a segment consisting of contiguous values, without a gap. Thus, `[2, 3, 4]` is a sublist of `[2, 2, 3, 4, 5]`, but `[2, 2, 4]` and `[2, 4, 5]` are not.

Sample Test Cases

	Input	Output
Test Case 1	<code>sublist([2,2,3],[2,2,3,4,5])</code>	True
Test Case 2	<code>sublist([2,2,4],[2,2,3,4,5])</code>	False
Test Case 3	<code>sublist([1],[3,4,1,5,6])</code>	True
Test Case 4	<code>sublist([], [7,8,9])</code>	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 5

sublist([13],[])

False

Test Case 6

sublist([2,2,3],[2,2,3,4,5])

True

Test Case 7

sublist([2,2,4],[2,2,3,4,5])

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)

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

**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
()**

