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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 6

Due on 2021-03-09, 22:00 IST

Question 6

Write a Python function `disjointlist(l1,l2)` that takes two lists as arguments and returns True if the two lists are disjoint, otherwise returns False.

Two lists are said to be disjoint if there is no element that common to both the lists. For instance, `[2,2,3,4,5]` and `[6,8,8,1]` are disjoint, while `[1,2,3,4]` and `[2,2]` are not.

Sample Test Cases

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

The due date for submitting this assignment has passed.
 As per our records you have not submitted this assignment.
 Sample solutions (Provided by instructor)

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 ()

```
1 def disjointlist(l1,l2):
2     s1 = set(l1)
3     s2 = set(l2)
4     return(s1 & s2 == set())
5 import ast
6
7 def topairoflists(inp):
8     inp = "["+inp+"]"
9     inp = ast.literal_eval(inp)
10    return (inp[0],inp[1])
11
12 fncall = input()
13 lparen = fncall.find("(")
14 rparen = fncall.rfind(")")
15 fname = fncall[:lparen]
16 farg = fncall[lparen+1:rparen]
17
18 if fname == "disjointlist":
19     (arg1,arg2) = topairoflists(farg)
20     print(disjointlist(arg1,arg2))
21
```

**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
()**

**Online
Programming
Test 1, 09
Mar 2021,
10:00-12:00
()**

**Online
Programming
Test 2, 09
Mar 2021,
20:00-22:00
()**

- ☐ Online Test 2,
Question 1
(/noc20_cs26/progassignment?
name=160)
- ☐ Online Test 2,
Question 2
(/noc20_cs26/progassignment?
name=161)
- ☐ Online Test 2,
Question 3
(/noc20_cs26/progassignment?
name=162)
- ☐ Online Test 2,
Question 4
(/noc20_cs26/progassignment?
name=163)
- ☐ Online Test 2,
Question 5
(/noc20_cs26/progassignment?
name=164)
- ☐ **Online Test 2,
Question 6
(/noc20_cs26/progassignment?
name=165)**
- ☐ Online Test 2,
Question 7
(/noc20_cs26/progassignment?
name=166)
- ☐ Online Test 2,
Question 8
(/noc20_cs26/progassignment?
name=167)