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

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# Online Test 2, Question 6

**Due on 2019-09-26, 22:00 IST**

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

## Instructions

This is the second 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 was from 9:30-11:30 am and the second is from 8:00-10:00 pm, on Thursday, 26 September 2019.
- You can attempt either of the tests. The best score will be counted..

## Question 6

Write a Python function `intersect(l1,l2)` that takes two **sorted** lists as arguments and returns the list of all elements common to both `l1` and `l2` in the same order that they appear in the two lists. If the same element occurs more than once in both lists, it should appear in the output exactly once.

Thus, `intersect([2,2,4],[1,2,2,3,4])` should return `[2, 4]` while `intersect([1,2,3],[4,5,6])` should return `[]`.

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

Week 7:  
Classes,  
objects and  
user defined  
datatypes

Week 7 Quiz

Private Test cases  
used for evaluation

Input

Expected  
Output

Actual  
Output

Status

Test Case 1

intersect([2,2,  
4],[1,2,2,3,4])

[2,  
4]\n

[2,  
4]\n

Pas  
sed

Test Case 2

intersect([1,2,  
3],[4,5,6])

[]\n

[]\n

Pas  
sed

Test Case 3

intersect([], [1,  
2,3])

[]\n

[]\n

Pas  
sed

Test Case 4

intersect([2,2,  
2,3,3],[2,3])

[2,  
3]\n

[2,  
3]\n

Pas  
sed

Due Date Exceeded.  
4 out of 4 tests passed.  
You scored 100.0/100.

Your last recorded submission was :

```
1 def intersect(l1,l2):
2     intersect_list = []
3     for i in range(len(l1)):
4         for j in range(len(l2)):
5             if l1[i]==l2[j]:
6                 intersect_list.append(l1[i])
7
8     return list(set(intersect_list))
9 import ast
10
11 def topairoflists(inp):
12     inp = "["+inp+"]"
13     inp = ast.literal_eval(inp)
14     return (inp[0],inp[1])
15
16 fncall = input()
17 lparen = fncall.find("(")
18 rparen = fncall.rfind(")")
19 fname = fncall[lparen]
20 farg = fncall[lparen+1:rparen]
21
22 if fname == "intersect":
23     (arg1,arg2) = topairoflists(farg)
24     print(intersect(arg1,arg2))
25
```

**Week 8:  
Dynamic  
programming,  
wrap-up**

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**Week 8  
Programming  
Assignment**

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**Online  
Programming  
Test - Sample**

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**Online  
Programming  
Test 1, 26 Sep  
2019, 09:30-  
11:30**

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**Online  
Programming  
Test 2, 26 Sep  
2019, 20:00-  
22:00**

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- Online Test 2,  
Question 1  
(/noc19\_cs40/progassignment?  
name=121)
- Online Test 2,  
Question 2  
(/noc19\_cs40/progassignment?  
name=122)
- Online Test 2,  
Question 3  
(/noc19\_cs40/progassignment?  
name=123)
- Online Test 2,  
Question 4  
(/noc19\_cs40/progassignment?  
name=124)
- Online Test 2,  
Question 5

(/noc19\_cs40/progassignment?  
name=125)

● **Online Test 2,  
Question 6**  
(/noc19\_cs40/progassignment?  
name=126)

● Online Test 2,  
Question 7  
(/noc19\_cs40/progassignment?  
name=127)

● Online Test 2,  
Question 8  
(/noc19\_cs40/progassignment?  
name=128)

● Online  
Programming  
Test 2, 26 Sep  
2019, 20:00-  
22:00 (unit?  
unit=111&lesson=129)