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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 2020-12-01, 22:00 IST

## 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 `[]`.

### Sample Test Cases

	Input	Output
Test Case 1	<code>intersect([2,2,4],[1,2,2,3,4])</code>	<code>[2, 4]</code>
Test Case 2	<code>intersect([1,2,3],[4,5,6])</code>	<code>[]</code>
Test Case 3	<code>intersect([], [1,2,3])</code>	<code>[]</code>
Test Case 4	<code>intersect([2,2,2,3,3],[2,3])</code>	<code>[2, 3]</code>
Test Case 5	<code>intersect([2,2,4],[1,2,2,3,4])</code>	<code>[2, 4]</code>
Test Case 6	<code>intersect([1,2,3],[4,5,6])</code>	<code>[]</code>

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

**function  
definitions,  
sorting ()**

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**Week 3  
Programming  
Assignment  
()**

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**Week 4:  
Sorting,  
Tuples,  
Dictionaries,  
Passing  
Functions,  
List  
Comprehension  
()**

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**Week 4 Quiz  
()**

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**Week 4  
Programming  
Assignment  
()**

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**Week 5:  
Exception  
handling,  
input/output,  
file handling,  
string  
processing ()**

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**Week 5  
Programming  
Assignment  
()**

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**Week 6:  
Backtracking,  
scope, data  
structures;  
stacks,  
queues and  
heaps ()**

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**Week 6 Quiz  
()**

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**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  
()**

☐ [Instructions  
\(unit?  
unit=128&lesson=129\)](#)

☐ [Online Test 2  
Question 1](#)

(/noc20\_cs26/progassignment?  
name=130)

☐ Online Test 2  
Question 2  
(/noc20\_cs26/progassignment?  
name=133)

☐ Online Test 2  
Question 3  
(/noc20\_cs26/progassignment?  
name=135)

☐ Online Test 2  
Question 4  
(/noc20\_cs26/progassignment?  
name=141)

☐ Online Test 2  
Question 5  
(/noc20\_cs26/progassignment?  
name=142)

☐ **Online Test 2**  
**Question 6**  
**(/noc20\_cs26/progassignment?**  
**name=143)**

☐ Online Test 2  
Question 7  
(/noc20\_cs26/progassignment?  
name=145)

☐ Online Test 2  
Question 8  
(/noc20\_cs26/progassignment?  
name=146)

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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  
( )**

