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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 1 Question 6

Due on 2020-12-01, 12:00 IST

## Question 6

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

A subsequence of a list is obtained by dropping some values. Thus, `[2, 3, 4]` and `[2, 2, 5]` are subsequences of `[2, 2, 3, 4, 5]`, but `[2, 4, 4]` and `[2, 4, 3]` are not.

### Sample Test Cases

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

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  
()**

- ☒ Instructions  
(unit?  
unit=126&lesson=127)
- ☐ Online Test 1  
Question 1  
(/noc20\_cs26/progassignment?  
name=131)
- ☐ Online Test 1  
Question 2  
(/noc20\_cs26/progassignment?  
name=132)

- ☐ Online Test 1  
Question 3  
(/noc20\_cs26/progassignment?  
name=134)
- ☐ Online Test 1  
Question 4  
(/noc20\_cs26/progassignment?  
name=136)
- ☐ Online Test 1  
Question 5  
(/noc20\_cs26/progassignment?  
name=137)
- ☐ **Online Test 1**  
**Question 6**  
**(/noc20\_cs26/progassignment?**  
**name=138)**
- ☐ Online Test 1  
Question 7  
(/noc20\_cs26/progassignment?  
name=139)
- ☐ Online Test 1  
Question 8  
(/noc20\_cs26/progassignment?  
name=140)

**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  
( )**

