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

Algorithms Using Python (course)

[Announcements \(announcements\)](#)

About the Course (https://swayam.gov.in/nd1_noc19_cs40/preview) [Ask a Question \(forum\)](#)

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Online Test 1, Question 6

Due on 2019-09-26, 11:30 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 first 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 will be from 9:30-11:30 am and the second 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 `subsequence(l1, l2)` that takes two **sorted** lists as arguments and returns `True` if the 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.

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

Sample Test Cases

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

Due Date Exceeded.

As per our records you have not submitted this assignment.

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

**Week 8
Programming
Assignment**

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videos**

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Transcripts**

**Online
Programming
Test - Sample**

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

- ☐ Online Test 1,
Question 1
(/noc19_cs40/progassignment?
name=113)
- ☐ Online Test 1,
Question 2
(/noc19_cs40/progassignment?
name=114)
- ☒ Online Test 1,
Question 3
(/noc19_cs40/progassignment?
name=115)
- ☐ Online Test 1,
Question 4
(/noc19_cs40/progassignment?
name=116)
- ☒ Online Test 1,
Question 5
(/noc19_cs40/progassignment?
name=117)
- ☒ **Online Test 1,
Question 6
(/noc19_cs40/progassignment?
name=118)**

- Online Test 1,
Question 7
(/noc19_cs40/progassignment?
name=119)

- Online Test 1,
Question 8
(/noc19_cs40/progassignment?
name=120)