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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)

Progress (student/home) Mentor (student/mentor)

Online Test 2, Question 4

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

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

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

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 4

Recall that the positions in a list of length n are 0,1,...,n-1. We want to write a function oddpositions(l) that returns the elements at the odd positions in l. In other words, the function should return the list [l[1], l[3], ...]. For instance oddpositions([]) == [], oddpositions([7]) == [], oddpositions([8,11,8]) == [11] and oddpositions([19,3,44,44,3,19]) == [3,44,19]. A recursive definition of oddpositions is given below. You have to fill in the missing argument for the recursive call.

```
def oddpositions(l):
   if len(l) <= 1:
     return([])
   else:
     return(...)</pre>
```

Open up the code submission box below and fill in the missing argument for the recursive call.

| Private Test cases used for evaluation | Input | Expected Output | Actual Output | Status |
|--|---|---------------------------|---------------------------|------------|
| Test Case 1 | oddpositions([1 3,42,12,16,18]) | [42, 1 6]\n | [42, 1 6]\n | Pas sed |
| Test Case 2 | oddpositions ([1,2,3,4,5,6, 7,8,9,10]) | [2, 4, 6, 8, 1 0]\n | [2, 4, 6, 8, 1 0]\n | Pas sed |
| Test Case 3 | oddpositions ([2,3,4,5,6,7, 8,9,10,11]) | [3, 5, 7, 9, 1 1]\n | [3, 5, 7, 9, 1 1]\n | Pas sed |

Week 8: Dynamic programming, wrap-up

Week 8 Programming Assignment

Download videos

Text Transcripts

Online Programming Test - Sample

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

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

- 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

Test Case 4

oddpositions [4, 6] [4, 6] Pas ([3,4,5,6]) \n \n sed

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

Your last recorded submission was :

(/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, 20:0022:00 (unit?
 unit=111&lesson=129)