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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)

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

Online Test 2, Question 1

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 1

Here is an function to return the maximum value in a list of integers. There is an error in this function. Provide an input list for which `maxbad` produces an incorrect output.

```
def maxbad(l):
  mymax = 0
  for i in range(len(l)):
    if l[i] > mymax:
       mymax = l[i]
  return(mymax)
```

Open up the code submission box below and write your test case where you would normally paste your code.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1		True\n	True\n	Passed

Due Date Exceeded.
1 out of 1 tests passed.
You scored 100.0/100.

Your last recorded submission was :

```
1  myinput = '''
2  [-1,-2,-3]
3  '''
4
5  def maxbad(l):
6    mymax = 0
7    for i in range(len(l)):
8      if l[i] > mymax:
9         mymax = l[i]
10   return(mymax)
11
12 import ast
```

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

```
13
14 try:
15    myarg =  ast.literal_eval(myinput.strip())
16 except:
17    print(False)
18 else:
19   try:
20      print(maxbad(myarg) != max(myarg))
21   except:
22      print(False)
23
```

(/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)