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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 3

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

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 3

Here is a function to compute the third smallest value in a list of **distinct integers**. All the integers are guaranteed to be below 1000000. You have to fill in the missing lines. You can assume that there are at least three numbers in the list.

```
def thirdmin(l):
  (mymin,mysecondmin,mythirdmin) = (1000000,1000000,1000000)
  for i in range(len(l)):
  # Your code below this line


  # Your code above this line
  return(mythirdmin)
```

Open up the code submission box below and fill in the gap in the code. Ensure that you maintain correct indentation.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	`thirdmin([-1,-2,-3,-4])`	`-2\n`	`-2\n`	Passed
Test Case 2	`thirdmin([10,-1,8,-2,0])`	`0\n`	`0\n`	Passed
Test Case 3	`thirdmin([13,12,2,17,3,6,8,5,18,-5,6,22])`	`3\n`	`3\n`	Passed
Test Case 4	`thirdmin([3,1,2])`	`3\n`	`3\n`	Passed

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

Your last recorded submission was :

```
def thirdmin(l):
  (mymin,mysecondmin,mythirdmin) = (1000000,1000000,1000000)
  for i in range(len(l)):
    # Your code below this line
    curr_num = l[i]
    while curr_num < l[i-1] and i-1>=0:
      l[i-1], l[i] = l[i],l[i-1]
      i-=1
    else:
      mythirdmin = l[2]

    # Your code above this line
  return(mythirdmin)

import ast

def tolist(inp):
  inp = ast.literal_eval(inp)
  return(inp)

fncall = input()
lparen = fncall.find("(")
rparen = fncall.rfind(")")
fname = fncall[:lparen]
farg = fncall[lparen+1:rparen]

if fname == "thirdmin":
  arg = tolist(farg)
  print(thirdmin(arg))


```

(/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)