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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » The Joy of Computing using Python (course)

Announcements (announcements)

About the Course (https://swayam.gov.in/nd1_noc20_cs35/preview) Ask a Question (forum)

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

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

week 4

Week 5

Week 6

Substitution
 Cipher -The
 science of
 secrecy (unit?
 unit=103&lesson=104)

Substitution
 Cipher -The
 science of
 secrecy 01

Programming Assignment-1: Computing Paradox

Due on 2020-03-12, 23:59 IST

(unit? You are provided with a playlist containing **N** songs, each has a unique positive unit=103&lesson=105) integer length. Assume you like all the songs from this playlist, but there is a song, which you like more than others. Substitution It is named "Computing Paradox". Cipher -The science of secrecy 02 You decided to sort this playlist in increasing order of songs length. For (unit? example, if the lengths of the songs in the playlist were {1, 3, 5, 2, 4} after unit=103&lesson=106) sorting it becomes {1, 2, 3, 4, 5}. Before the sorting, "Computing Paradox" was on the kth position (1-indexing is Substitution assumed for the playlist) in the playlist. Cipher -The science of secrecy 03 Your task is to find the position of "Computing Paradox" in the sorted playlist. (unit? unit=103&lesson=107) **Input Format:** The first line contains two numbers N denoting the number of songs in the Tic Tac Toe -Down the playlist. memory Lane The second line contains N space separated integers A₁, A₂, A₃,..., A_N denoting (unit? the lengths of songs. unit=103&lesson=108) The third line contains an integer k, denoting the position of "Computing Paradox" in the initial playlist. O Tic Tac Toe -Down the memory Lane **Output Format:** 01 (unit? unit=103&lesson=109) Output a single line containing the position of "Computing Paradox" in the sorted playlist. O Tic Tac Toe -Down the memory Lane **Example:** 02 (unit? unit=103&lesson=110) Input: 4 Tic Tac Toe -1342 Down the 2 memory Lane 03 (unit? unit=103&lesson=111) Output: O Tic Tac Toe -Down the memory Lane 04 (unit? Explaination: unit=103&lesson=112) N equals to 4, k equals to 2, A equals to $\{1, 3, 4, 2\}$. The answer O Tic Tac Toe is 3 because $\{1, 3, 4, 2\} \rightarrow \{1, 2, 3, 4\}$. Down the memory Lane 05 (unit? Sample Test Cases unit=103&lesson=113) Input **Output** Recursion (unit? 16 **Test Case** unit=103&lesson=114) 11 22 33 21 47 37 23 14 32 2 3 1 6 45 24 16 5 1 Recursion 01 (unit? unit=103&lesson=115) 6 **Test Case** 1 2 3 4 5 7 6 Recursion 02 2 6 (unit? unit=103&lesson=116)

```
Recursion 03
                           Test Case
   (unit?
                                          39 45 7 24 30 32
                                                                                                            1
                           3
   unit=103&lesson=117)
                                          3
Recursion 04
   (unit?
                                          5
                           Test Case
   unit=103&lesson=118)
                                         1 2 3 9 4
                                                                                                            4
                                          5
Recursion 05
   (unit?
   unit=103&lesson=119)
                                          5
                           Test Case
                                         1 2 3 9 4
                                                                                                            1
Recursion 06
                           5
                                          1
   (unit?
   unit=103&lesson=120)
                                          6
O Quiz:
                           Test Case
                                         1 3 5 2 4 6
                                                                                                            5
   Assignment 6
                           6
                                          3
   (assessment?
   name=276)
Programming
                          The due date for submitting this assignment has passed.
   Assignment-
                          As per our records you have not submitted this assignment.
   1: Computing
                          Sample solutions (Provided by instructor)
                                n=int(input())
a=[int(x) for x in input().split()]
k=int(input())
key=a[k-1]
   Paradox
                             123456789
   (/noc20_cs35/progassi
   name=295)
                                key=a[k-1]
a.sort()
for i in range(len(a)):
    if key==a[i]:
        print(i+1)

    Programming

   Assignment-2:
   Dictionary
   (/noc20 cs35/progassig
   name=296)

    Programming

   Assignment-3:
   Functions
   (/noc20_cs35/progassignment?
   name=297)
 Week 6
   Feedback
   (unit?
   unit=103&lesson=298)
Week 7
Week 8
Week 9
Week 10
Week 11
Week 12
Text Transcripts
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