HackerRank Prepare > Interview Preparation Kits > 3 Months Preparation Kit > Week 7 > New Year Chaos

Function Description

Complete the function *minimumBribes* in the editor below.

minimumBribes has the following parameter(s):

• *int q[n]*: the positions of the people after all bribes

Returns

• No value is returned. Print the minimum number of bribes necessary or Too chaotic if someone has bribed more than **2** people.

Input Format

The first line contains an integer t, the number of test cases.

Each of the next $m{t}$ pairs of lines are as follows:

- The first line contains an integer $m{t}$, the number of people in the queue

- The second line has $m{n}$ space-separated integers describing the final state of the queue.

Constraints

• $1 \le t \le 10$

Subtasks

For 60% score $1 \le n \le 10^3$

For 100% score $1 \leq n \leq 10^5$

Sample Input

STDIN	Function
2	t = 2
5	n = 5
2 1 5 3 4	q = [2, 1, 5, 3, 4]
5	n = 5
2 5 1 3 4	q = [2, 5, 1, 3, 4]

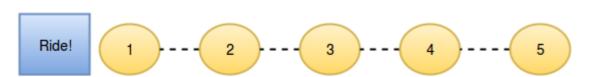
Sample Output

Too chaotic

Explanation

Test Case 1

The initial state:



After person **5** moves one position ahead by bribing person **4**:



Now person 5 moves another position ahead by bribing person 3:

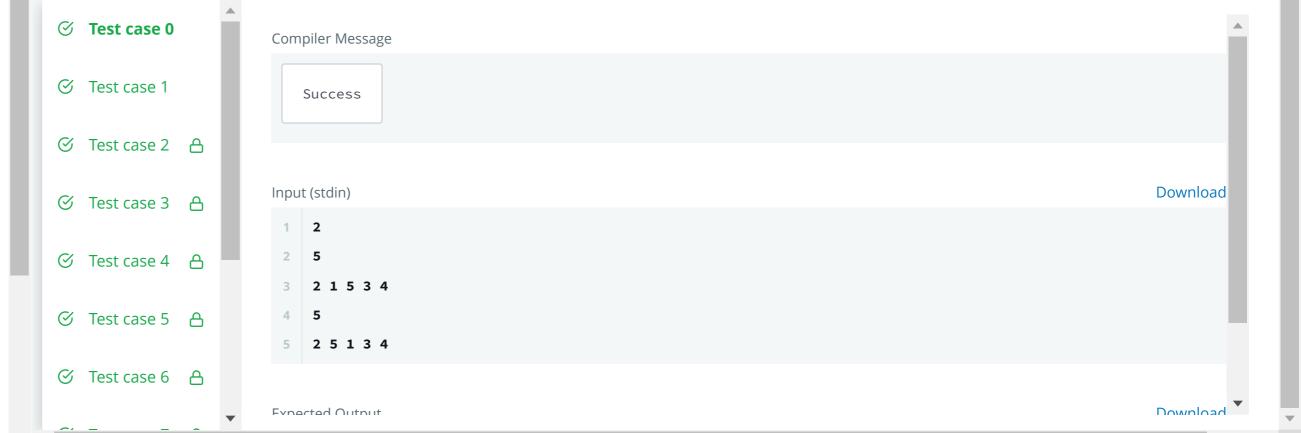


And person $\mathbf{2}$ moves one position ahead by bribing person $\mathbf{1}$:

```
20 # Complete the 'minimumBribes' function below.
21 #
# The function accepts INTEGER_ARRAY q as parameter.
24
25 ∨ def minimumBribes(q):
        # using bubble sort, get the array back to it's initial state
26
         # number of swaps will be = to number of bribes
27
        bribes = 0
         # keep track of individual element's number of swaps
31
        # if it exceeded 2, return 'Too chaotic'
        bribes_map = {}
32
34 🗸
        for i in range(len(q)):
             swaps = True
36 🗸
             for j in range(len(q)-1):
                if q[j] > q[j+1]:
37 🗸
                    bribes_map[q[j]] = bribes_map.get(q[j],0)+1
40 🗸
                    if bribes_map[q[j]] > 2:
                        print('Too chaotic')
                        return
                    q[j], q[j+1] = q[j+1], q[j]
                    bribes +=1
                    swaps = False
             # optimization
49
             if swaps is True:
50 🗸
                 print(bribes)
                 return
54
        print(bribes)
        return
                                                                                                                       Line: 19 Col: 1
                                                                                                          Run Code
                                                                                                                        Submit Code
                   Test against custom input
① Upload Code as File
```



You solved this challenge. Would you like to challenge your friends? f in



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