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Finish Test

IIITB Coding Practice Chapter 16 LIVE

INSTRUCTIONS

PROBLEMS

SUBMISSIONS

LEADERBOARD

ANALYTICS

JUDGE

← Problems / Professor and his operations

Professor and his operations

Max. Marks: 100

Consider an array of integers A having N elements in which each element has a one- to-one relation with another array element.

For each i, where $1 \leq i \leq N$, there exists a 1->1 relation between element i and element N-i+1

Professor A now asked one of his students to make some operations on this array which are as follows:

Given two integers (L,R) , he has to swap each element in that range with its related image.(See Sample explanation for clarity.)

Professor has asked him to perform **Q** operations and then finally tell the resultant array. Can you help him do it?

Input:

First line contains an integer **N**.

Next line contains N space separated integers describing the original array.

Next line contains single integer **Q** - the number of operations to be performed.

Next Q lines contains two integers L and

IVE EVENT

R as explained in the question above.

Output

Output the resultant array required by the professor

Constraints

$$1 \le N, Q \le 10^5 \ 1 \le A[i] \le 10^8 \ 1 \le L \le R \le N$$

SAMPLE INPUT	SAMPLE OUTPUT
5 1 2 3 4 5 2 1 2 2 3	5 2 3 4 1

Explanation

For first query,we will swap 1 with 5 and 2 with 4.

Now the array becomes- 5 4 3 2 1

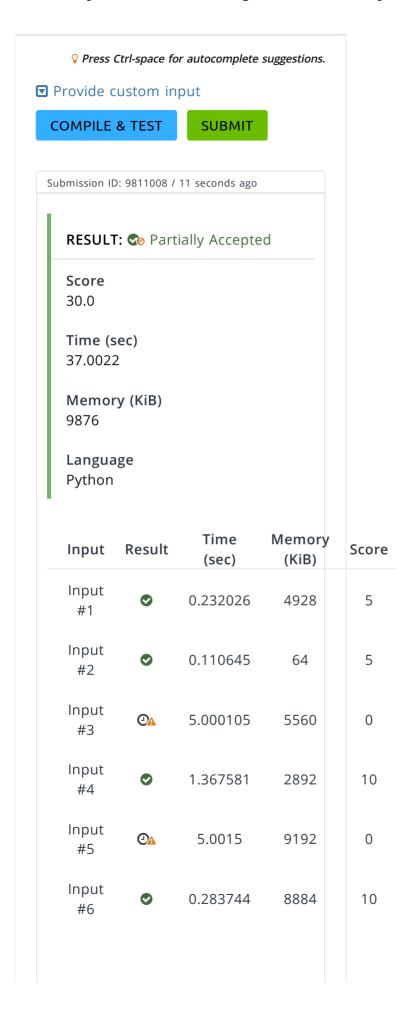
Similarly now ,for the second query we will swap 4 with 2 and 3 with itself.
So the final array will be 5 2 3 4 1

Time Limit:	1.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Marks are awarded if any
	testcase passes.
Allowed Languages:	C, C++, Clojure, C#, D,
	Erlang, F#, Go, Groovy,
	Haskell, Java, Java 8,
	JavaScript(Rhino),
	JavaScript(Node.js), Lisp,
	Lisp (SBCL), Lua,

```
Objective-C, OCaml, Octave,
Pascal, Perl, PHP, Python,
Python 3, R(RScript), Racket,
Ruby, Rust, Scala, Swift,
Visual Basic
```

CODE EDITOR

```
Enter your code or Upload your code as
                                         ₩
file.
             Python (python 2.7.6)
    Save
    import sys
 1
 2
    line = sys.stdin.readline().rstrip()
    line = sys.stdin.readline().rstrip()
    inp = line.split(" ")
 5
    inp = [int(el) for el in inp]
 6
 7
    op = [0 for _ in range(len(inp))]
 9
    q = int(sys.stdin.readline().rstrip())
10
11
   for _ in range(q):
         line = sys.stdin.readline().rstrip
12
         line = line.split(" ")
13
14
         l = int(line[0])
15
         r = int(line[1])
16
         for i in range(l-1, r):
17
             op[i] = (op[i]+1) \% 2
18
19
    if(len(op)%2 == 0):
         \lim = \frac{\text{len}(\text{op})}{2} - 1
20
21
    else:
22
         \lim = \inf(\operatorname{len}(\operatorname{op})/2) + 1
23
    n = len(op)
24
25
    for i in range(lim):
26
         op[i] = (op[i] + op[n-i-1])%2
         if (op[i] == 1):
27
             temp = inp[i]
28
             inp[i] = inp[n-i-1]
29
30
             inp[n-i-1] = temp
31
    for el in inp:
32
33
         print str(el),
34
```

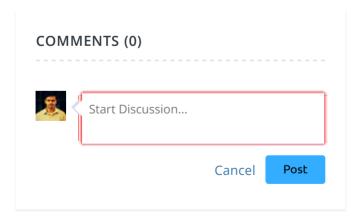


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7	5
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Input #7	@	5.0015	8712	0
Input #8	O A	5.001916	9760	0
Input #9	⊘ A	5.000472	9732	0
Input #10	⊘ A	5.0015	9876	0
Input #11	O A	5.001213	9192	0
Compilation Log No compilation log for this submission.				

- **Tip:** You can submit any number of times you want. Your best submission is considered for computing total score.
- **Support:** For any queries or issues, write to "roshni.dsouza"<roshni.dsouza@iiitb.ac.in>.

Your Rating:



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