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

R as explained in the question above.

Output
Output the resultant array required by the professor

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

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

7

LIVE EVENT

CODE EDITOR

Enter your code or Upload your code as file.

Save | Python (python 2.7.6)

```
1  import sys
2
3  line = sys.stdin.readline().rstrip()
4  line = sys.stdin.readline().rstrip()
5  inp = line.split(" ")
6  inp = [int(el) for el in inp]
7
8  op = [0 for _ in range(len(inp))]
9  q = int(sys.stdin.readline().rstrip())
10
11 for _ in range(q):
12     line = sys.stdin.readline().rstrip
13     line = line.split(" ")
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):
20     lim = len(op)/2 - 1
21 else:
22     lim = int(len(op)/2) + 1
23
24 n = len(op)
25 for i in range(lim):
26     op[i] = (op[i] + op[n-i-1])%2
27     if (op[i] == 1):
28         temp = inp[i]
29         inp[i] = inp[n-i-1]
30         inp[n-i-1] = temp
31
32 for el in inp:
33     print str(el),
34
```

Press Ctrl-space for autocomplete suggestions.

Provide custom input

COMPILE & TEST SUBMIT

Submission ID: 9811008 / 11 seconds ago

RESULT: Partially Accepted

Score
30.0

Time (sec)
37.0022

Memory (KiB)
9876

Language
Python

Input	Result	Time (sec)	Memory (KiB)	Score
Input #1	✓	0.232026	4928	5
Input #2	✓	0.110645	64	5
Input #3	⏱	5.000105	5560	0
Input #4	✓	1.367581	2892	10
Input #5	⏱	5.0015	9192	0
Input #6	✓	0.283744	8884	10

Input #7		5.0015	8712	0
Input #8		5.001916	9760	0
Input #9		5.000472	9732	0
Input #10		5.0015	9876	0
Input #11		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: ★★★★★

COMMENTS (0)

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