16/11/2017 HackerRank



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Points: 25 Rank: 183204



Dashboard > Data Structures > Advanced > Swaps and Sum

Swaps and Sum





Problem

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You are given a sequence a_1, a_2, \ldots, a_n . The task is to perform the following queries on it:

Type 1. Given two integers l and r ($1 \le l < r \le n$; r - l + 1 is even). Reorder the elements of the sequence in such a way (changed part of the sequence is in brackets):

$$a_1, a_2, \ldots, a_n \rightarrow a_1, a_2, \ldots, a_{l-2}, a_{l-1}, [a_{l+1}, a_l, a_{l+3}, a_{l+2}, \ldots, a_r, a_{r-1}], a_{r+1}, a_{r+2}, \ldots, a_n$$

That is swap the first two elements of segment [l, r], the second two elements, and so on.

Type 2. Given two integers \boldsymbol{l} and \boldsymbol{r} , print the value of sum $\sum_{i=1}^{n} a_{i}$.

Input Format

The first line contains two integers n and q. The second line contains n integers a_1, a_2, \ldots, a_n , denoting initial sequence.

Each of the next q lines contains three integers tp_i, l_i, r_i , where tp_i denotes the type of the query, and l_i, r_i are parameters of the query. It's guaranteed that for a first-type query (r-l+1) will be even.

Constraints

$$2 \le n \le 2 imes 10^5$$

$$1 \le q \le 2 \times 10^5$$

$$1 \leq a_i \leq 10^6$$

$$1 \leq tp_i \leq 2$$

$$1 \le l_i \le r_i \le n$$

Output Format

For each guery of the second type print the required sum.

Sample Input

- 1 2 3 4 5 6
- 2 2 3
- 2 3 4

Example Output

- 7
- 9

Explanation

After the first query the sequence becomes [1, 3, 2, 5, 4, 6].

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F in Submissions:220
Max Score:120
Difficulty: Advanced
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Current Buffer (saved locally, editable) \ \mathscr{V} \ \mathfrak{O}
                                                                                                Java 7
 1 ▼ import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5 import java.util.regex.*;
 6
 7 ▼ public class Solution {
 8
         public static void main(String[] args) {
 9 ▼
10 ▼
             /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11
12
    }
                                                                                                                          Line: 1 Col: 1
                       Test against custom input
                                                                                                             Run Code
                                                                                                                           Submit Code
1 Upload Code as File
```

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