Contest Duration: 2023-03-11(Sat) 21:00 (http://www.timeanddate.com/worldclock/fixedtime.html?iso=20230311T2100&p1=248) - 2023-03-11(Sat) 22:40 (http://www.timeanddate.com/worldclock/fixedtime.html?iso=20230311T2240&p1=248) (local time) (100 minutes) Back to Home (/home) Tasks (/contests/abc293/tasks) **?** Clarifications (/contests/abc293/clarifications) ↑ Top (/contests/abc293) ✓ Submit (/contests/abc293/submit?taskScreenName=abc293_g) **≡** Results **▼** JF Standings (/contests/abc293/standings) ↓ Virtual Standings (/contests/abc293/standings/virtual) Custom Test (/contests/abc293/custom_test) Editorial (/contests/abc293/editorial)

G - Triple Index Editorial (/contests/abc293/tasks/abc293_g/editorial)

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Time Limit: 3 sec / Memory Limit: 1024 MB

Score: 600 points

Problem Statement

You are given a length-N sequence (A_1,A_2,\ldots,A_N) of positive integers, and Q queries about the sequence.

For each $q=1,2,\ldots,Q$, the q-th query gives you an integer pair (l_q,r_q) ; print the number of integer triplets (i, j, k) such that

- $ullet \ l_q \leq i < j < k \leq r_q$, and
- $A_i = A_i = A_k$.

Constraints

- $1 \le N \le 2 \times 10^5$
- $1 \le Q \le 2 \times 10^5$
- $1 \le A_i \le 2 \times 10^5$
- $1 \le l_q \le r_q \le N$
- All values in the input are integers.

Input

The input is given from Standard Input in the following format:

```
N Q
A_1 A_2 ... A_N
l_1 r_1
l_2 r_2
l_Q r_Q
```

Output

Print Q lines. For $q=1,2,\ldots,Q$, the q-th line should contain the answer to the q-th query.

Sample Input 1 Copy

```
Copy
10 4
2 7 1 8 2 8 1 8 2 8
1 10
1 9
2 10
5 5
```

```
5
 2
 4
 0
For the first query, there are five triplets of integers that satisfy the conditions in the problem statement:
(1,5,9),(4,6,8),(4,6,10),(4,8,10), and (6,8,10).
Sample Input 2 Copy
                                                                                                                  Сору
 20 10
 12 16
 17 18
 12 18
 4 9
 13 13
 2 5
 6 13
 2 14
 7 14
 8 12
Sample Output 2 Copy
                                                                                                                  Сору
 1
 0
 5
 2
 0
 1
 11
 55
 8
 1
Language
 C++ (GCC 9.2.1)
Source Code
  1
* at most 512 KiB
* Your source code will be saved as Main. extension.
              Toggle Editor
 Open File
                          Auto Height
 Submit
  (/#facebook)
                (/#twitter)
                           (/#telegram)
```

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