

CSES Problem Set

Salary Queries

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Time limit: 1.00 s **Memory limit:** 512 MB

A company has n employees with certain salaries. Your task is to keep track of the salaries and process queries.

Input

The first input line contains two integers n and q : the number of employees and queries. The employees are numbered $1, 2, \dots, n$.

The next line has n integers p_1, p_2, \dots, p_n : each employee's salary.

After this, there are q lines describing the queries. Each line has one of the following forms:

- $! k x$: change the salary of employee k to x
- $? a b$: count the number of employees whose salary is between $a \dots b$

Output

Print the answer to each $?$ query.

Constraints

- $1 \leq n, q \leq 2 \cdot 10^5$
- $1 \leq p_i \leq 10^9$
- $1 \leq k \leq n$
- $1 \leq x \leq 10^9$
- $1 \leq a \leq b \leq 10^9$

Example

Input:

```
5 3
3 7 2 2 5
? 2 3
! 3 6
? 2 3
```

Output:

```
3
2
```

Range Queries

...	
Forest Queries	<input checked="" type="checkbox"/>
Hotel Queries	<input checked="" type="checkbox"/>
List Removals	<input checked="" type="checkbox"/>
Salary Queries	<input checked="" type="checkbox"/>
Prefix Sum Queries	<input checked="" type="checkbox"/>
Pizzeria Queries	<input type="checkbox"/>
Subarray Sum Queries	<input checked="" type="checkbox"/>
Distinct Values Queries	<input checked="" type="checkbox"/>
...	

Your submissions

2024-10-20 14:45:26	<input checked="" type="checkbox"/>
2024-10-17 22:52:06	<input type="checkbox"/>
2024-10-17 22:49:42	<input type="checkbox"/>
2024-10-17 20:15:48	<input type="checkbox"/>
2024-10-17 20:11:46	<input type="checkbox"/>
2024-10-17 18:20:47	<input type="checkbox"/>
2024-10-16 01:22:40	<input type="checkbox"/>
2024-10-16 01:21:39	<input type="checkbox"/>
2024-10-16 01:14:44	<input type="checkbox"/>
2024-10-16 01:10:14	<input type="checkbox"/>
2024-10-16 01:07:44	<input type="checkbox"/>
2024-10-16 01:03:07	<input type="checkbox"/>
2024-10-16 01:02:33	<input type="checkbox"/>
2024-10-16 01:01:43	<input type="checkbox"/>
2024-10-16 00:58:50	<input type="checkbox"/>
2024-10-16 00:55:42	<input type="checkbox"/>
2024-10-16 00:53:50	<input type="checkbox"/>
2024-10-16 00:53:08	<input type="checkbox"/>
2024-10-16 00:36:05	<input type="checkbox"/>
2024-10-16 00:35:11	<input type="checkbox"/>
2024-10-16 00:28:00	<input type="checkbox"/>
2024-10-16 00:22:24	<input type="checkbox"/>
2024-10-16 00:18:55	<input type="checkbox"/>
2024-10-16 00:08:02	<input type="checkbox"/>
2024-10-16 00:06:34	<input type="checkbox"/>
2024-10-16 00:03:44	<input type="checkbox"/>
2024-10-15 23:51:34	<input type="checkbox"/>
2024-10-15 23:45:55	<input type="checkbox"/>
2024-10-15 23:43:25	<input type="checkbox"/>
2024-10-15 23:40:43	<input type="checkbox"/>
2024-10-15 23:32:37	<input type="checkbox"/>
2024-10-15 23:30:27	<input type="checkbox"/>