

CSES Problem Set

# Salary Queries

TASK | SUBMIT | RESULTS | STATISTICS | HACKING

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	
Hotel Queries	
List Removals	
Salary Queries	
Prefix Sum Queries	
Pizzeria Queries	
Subarray Sum Queries	
Distinct Values Queries	

### Your submissions

2022-07-06 00:20:32	
2022-07-05 23:59:59	
2022-07-05 23:38:18	
2022-07-05 23:37:01	
2020-11-28 19:32:15	
2020-11-28 19:31:23	
2020-11-28 18:59:16	