

CSES Problem Set

Distinct Values Queries II

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

Given an array of n integers, your task is to process q queries of the following types:

1. update the value at position k to u
2. check if every value in range $[a, b]$ is distinct

Input

The first line has two integers n and q : the number of values and queries.

The second line has n integers x_1, x_2, \dots, x_n : the array values.

Finally, there are q lines describing the queries. Each line has three integers: either "1 k u " or "2 a b ".

Output

For each query of type 2, print YES if every value in the range is distinct and NO otherwise.

Constraints

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

Example

Input:

```
5 4
3 2 7 2 8
2 3 5
2 2 5
1 2 9
2 2 5
```

Output:

```
YES
NO
```

Range Queries

...	
Subarray Sum Queries	<input type="checkbox"/>
Subarray Sum Queries II	<input type="checkbox"/>
Distinct Values Queries	<input type="checkbox"/>
Distinct Values Queries II	<input checked="" type="checkbox"/>
Increasing Array Queries	<input checked="" type="checkbox"/>
Movie Festival Queries	<input type="checkbox"/>
Forest Queries II	<input checked="" type="checkbox"/>
Range Updates and Sums	<input type="checkbox"/>
...	

Your submissions

2026-04-17 19:46:20	<input checked="" type="checkbox"/>
2026-04-17 19:44:53	<input type="checkbox"/>
2026-04-17 19:44:06	<input type="checkbox"/>

YES

