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Devu and an Array

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Devu has an array **A** consisting of **N** positive integers. He would like to perform following operation on array.

- Pick some two elements **a**, **b** in the array (**a** could be same as **b**, but their corresponding indices in the array should not be same). Remove both the elements **a** and **b** and instead add a number **x** such that **x** lies between **min(a, b)** and **max(a, b)**, both inclusive, (i.e. $\min(a, b) \leq x \leq \max(a, b)$).

Now, as you know after applying the above operation **N - 1** times, Devu will end up with a single number in the array. He is wondering whether it is possible to do the operations in such a way that he ends up a number **t**.

He asks your help in answering **Q** such queries, each of them will contain an integer **t** and you have to tell whether it is possible to end up **t**.

Input

There is only one test case per test file.

First line of the input contains two space separated integers **N**, **Q** denoting number of elements in **A** and number of queries for which Devu asks your help, respectively

Second line contains **N** space separated integers denoting the content of array **A**.

Each of the next **Q** lines, will contain a single integer **t** corresponding to the query.

Output

Output **Q** lines, each containing "Yes" or "No" (both without quotes) corresponding to the answer of corresponding query.

All Submissions

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Subtasks

Subtask #1 : 30 points

- $1 \leq A_i \leq 2$

Subtask #2 : 70 points

- $1 \leq A_i \leq 10^9$
-

Example

Input 1:

```
1 2
1
1
2
```

Output:

```
Yes
No
```

Input 2:

```
2 4
1 3
1
2
3
4
```


Output:

```
Yes
Yes
Yes
No
```

Explanation

In the first example, Devu can't apply any operation. So the final element in the array will be 1 itself.

In the second example, Devu can replace 1 and 3 with any of the numbers among 1, 2, 3. Hence final element of the array could be 1, 2 or 3.

Author:	admin2
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