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Tag(s): Binary Search, Easy

PROBLEM

EDITORIAL

You are given an array **A** of size **N**, and **Q** queries to deal with. For each query, you are given an integer **X**, and you're supposed to find out if **X** is present in the array **A** or not.

Input:

The first line contains two integers, **N** and **Q**, denoting the size of array **A** and number of queries. The second line contains **N** space separated integers, denoting the array of elements **A_i**. The next **Q** lines contain a single integer **X** per line.

Output:

For each query, print **YES** if the **X** is in the array, otherwise print **NO**.

Constraints:

$$1 \leq N, Q \leq 10^5$$

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

$$1 \leq X \leq 10^9$$

SAMPLE INPUT



```
5 10
50 40 30 20 10
10
20
30
40
50
60
70
80
```