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## A. Binary Search

time limit per test: 2 seconds<sup>©</sup> memory limit per test: 512 megabytes

Implement a binary search algorithm.

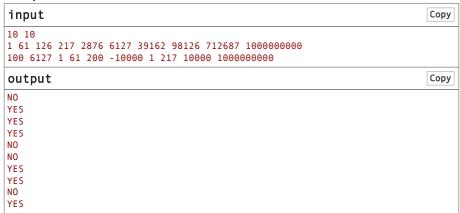
## Input

The first line of the input contains integers n and k ( $1 \le n, k \le 10^5$ ), the length of the array and the number of queries. The second line contains n elements of the array, sorted in non-decreasing order. The third line contains k queries. All array elements and queries are integers, each of which does not exceed  $10^9$  in absolute value.

## Output

For each of the k queries print <code>YES</code> in a separate line if this number occurs in the array, and <code>NO</code> otherwise.

## Example



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