Problem B

Fountain Pens

Time limit: 1s
Memory Limit: 64MB

Malfple has so many fountain pens. Specifically, he has N fountain pens of varying nib* sizes. Pen i has nib size Ai $(1 \le i \le N)$. Now he has Q job requests. In each request, he needs to use a pen of a specific nib size. He needs to know whether he can do the job.

PS: nib is the english word for "the pointed end part of a pen, which distributes the ink on the writing surface."

Input
The first line consists of two integers N, Q $(1 \le N, Q \le 100000)$ denoting the number of fountain pens and the number of job queries.
The second line consists of N integers Ai $(1 \le Ai \le 1000000000)$ given in non-decreasing order.
The next Q lines consist of an integer S $(1 \le S \le 1000000000)$, the nib size he needs for the job.

Output
For each job, output 'YAY' if he can do the job, or 'NEHIK' if he can't, in a single line.

Sample Input
5 6 1 4 5 5 123 1 2 3 4 5 1000
Sample Output
YAY NEHIK NEHIK YAY YAY NEHIK

Notes:
Nib size 2, 3, and 1000 are not available. Thus the answer for the 3 queries are "NEHIK".

PS: You can’t use **LINEAR SEARCH** for this problem. What other kind of search do you know?! And do you know why you **have to use** the other kind of search?

PS: You don’t need to use **SORT**! See that in the input specification, it’s said that the inputs are given in non-decreasing order.