Homework 7

Computer Programming (II) Spring Semester, 2024 (Time limit: 1 second)

We are given integers a_0 , a_1 , ..., a_{n-1} , k_0 , k_1 , ..., k_{m-1} . For $0 \le i < n-1$, $a_i \le a_{i+1}$. For each $0 \le i \le m-1$, please determine whether $k_i \in \{a_0, a_1, \ldots, a_{n-1}\}$.

Input format

The first line is n. The second line consists of a_0 , a_1 , ..., a_{n-1} , in that order. Then the third line is m, and the fourth line consists of k_0 , k_1 , ..., k_{m-1} , in that order. Any two consecutive integers in a line are separated by a space.

Output format

For each $0 \le i \le m-1$, output "yes" if $k_i \in \{a_0, a_1, \dots, a_{n-1}\}$ and "no" otherwise. Each "yes" or "no" should be in a separate line.

Technical specification

- $0 < n \le 100000$.
- $0 < m \le 100000$.
- $0 \le a_0, a_1, ..., a_{n-1}, k_0, k_1, ..., k_{m-1} \le 200000.$

Sample input

10

1223567778

10

2709360626

Sample output

yes

yes

no

no

yes

yes

no

yes

yes

yes

Additional requirement

The only header to include is <iostream>.