## Majority Party

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There are n houses in a locality. Every house gives a vote to a single party(say, AAP).(Party is denoted by a number). You are given queries (l to r) and asked to find if there exists a majority party in houses numbered from I to $r$.

Note:A party is considered in majority if there exists a subarray of size > (size of range)/2 in which all votes are of the same party.(In case of odd, consider floor function).

## Input

First line contains number n , the number of houses in the locality.
Second line contains the $n$ numbers denoting the party number of the vote of the ith house.
Third line contains M which is the number of queries.
$M$ lines are given of the form I $r$.

## Output

Output M lines containing the answer for each query in a single line.
Answer of each query is of form "yes" or "no".

## Constraints

$\mathrm{n}<=10^{\wedge} 5$
$a[i]<=10^{\wedge} 8$
$\mathrm{m}<=10^{\wedge} 5$
$1<=\mid<=r<=n$

## Sample Input

5
22233
2
25
24

## Sample Output

no
yes

