Divisibility of Power

You are given an array A of size N. You are asked to answer Q queries.

Each query is of the form :

i j x

You need to print `Yes` if x divides the value returned from $find(i, j)$ function, otherwise print `No`.

```
find(int i,int j)
{
   if(i>j) return 1;
   ans = pow(A[i],find(i+1,j))
   return ans
}
```

Input Format

First line of the input contains N. Next line contains N space separated numbers. The line, thereafter, contains Q , the number of queries to follow. Each of the next Q lines contains three positive integer i, j and x.

Output Format

For each query display `Yes` or `No` as explained above.

Constraints

$2 \leq N \leq 2 \times 10^5$
$2 \leq Q \leq 3 \times 10^5$
$1 \leq i, j \leq N$
$i \leq j$
$1 \leq x \leq 10^{16}$
$0 \leq$ value of array element $\leq 10^{16}$

No 2 consecutive entries in the array will be zero.

Sample Input

```
4
2 3 4 5
2
1 2 4
1 3 7
```

Sample Output

```
Yes
No
```