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Most Frequent Element

Problem Code: MFREQ

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Given an array of size n , you have to answer queries of the form : $L \ R \ k$. For each query, you have to find an element which occurs **consecutively** in the subarray $[L,R]$ more than or equal to k times. k will always be greater than $\text{floor}((R-L+1)/2)$. If no such element exists, print -1.

Input

First line of the input contains 2 space separated N and M , denoting the size of the array and the number of queries.

The next line contains N space separated integers, where the i -th integer A_i denotes the i th element of the array.

Each of the next M lines contains 3 integers space separated integers L , R and k .

Output

Output M lines where each line contains the answer to the i -th query.

Constraints

- $1 \leq N, M \leq 10^5$
- $1 \leq L \leq R \leq N$
- $\text{floor}((R-L+1)/2) < k \leq R-L+1$
- $0 \leq A_i \leq 10^9$

Subtasks

Subtask #1 (10 points):

All Submissions

Successful Submissions



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Subtask #2 (30 points):

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- $1 \leq N \leq 1000$

Subtask #3 (60 points):

- No other constraints

Example

Input :


```
5 1
1 2 2 2 2
1 5 3
```

Output :

```
2
```

Explanation

The element 2 occurs more than 3 times in the range [1,5].

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Tags: [kevind](#)

Date Added: 7-02-2017

Time Limit: 1 secs

Source Limit: 50000 Bytes

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