Question **1**

Correct

Marked out of 10.00

As part of his training, Rock Lee will run on a trail of length n labelled from 1 to n. Usually, he runs m segments around the trail every day. His coach makes him start his run from 1 and gives him the ending point of each segment.

According to his coach's instructions, in the i^{th} segment, Rock Lee has to start his run from spot[i] and end at spot[i+1] (where 0 <= i < m-1). The trail is circular, so if spot[i+1] < spot[i], he has to run past the last marker and continue running from marker 1 until he reaches spot[i+1].

On each segment, Rock Lee visits each marker from beginning to end of the segment. Find the most frequently visited spot in the entire circular trail.

If there are multiple markers with the same number of visits, choose the smallest one.

Input Format

N M

spot[1...n]

Two integers N and M denoting the length of the trail, and the number of segments Rock Lee has to run.

Then follow M space-separated integers denoting the ending points for each of the M segments.

The run always begins from the label 1

Sample Input

3 3

3 3 2

Sample Output

3

Explanation

For example, given a track or length N = 3, and M = 3 segments to run ending at spot = [3, 3, 2],

· On the first segment, Rock Lee visits spots 1, 2, and 3.

· On the second segment, he visits spots 3, 1, 2, 3, and

· On the third segment he visits 3, 1, 2.

He has visited spot 3 the most times, with a visit count of 4.

For example:

Input	Result
3 3 3 3 2	3

Answer: (penalty regime: 0 %)

```
n,m=map(int,input().split())
spot=list(map(int,input().split()))
visit=[0]*(n+1)
curr=1
for i in spot:
    if curr<=i:
        for i in range(curr,i+1):
            visit[i]+=1
    else:
        for i in range(curr,n+1):
            visit[i]+=1
        for j in range(1,i+1):
            visit[i]+=1
    curr=i
count=max(visit[1:])
for i in range(1,n+1):
    if visit[i]==count:
        print(i)
        break
```

	Input	Expected	Got	
✔	3 3 3 3 2	3	3	✔

Passed all tests! ✔