Election result



Election is contested by n candidates.

Candidates are numbered from 1 to n.

Voter can give vote to a candidate by his/her number.

Any number between 1 to n from voter is considered vote to particular candidate, and 0 from voter is considered NOTA (Non Of The Above).

Input Format

Input will contain 2 + m lines.

First line will have number of candidates (n)

Second line will have total no. of votes (m)

Next *m* lines will contain one vote per line

Constraints

0 <= **each vote** <= **n**

0 < no. of candidates (*n*) <= 1000

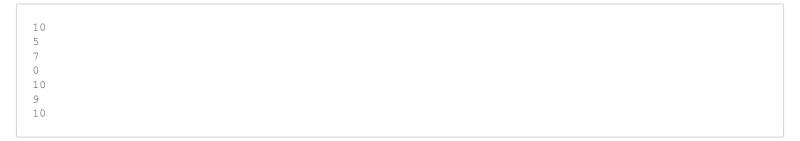
0 < no. of votes (m) <= 1000000

Output Format

Output should have 1 line containing

- winning candidate's number, in case of clear victory by any candidate
- 0, if NOTA wins.
- -1, if there is a tie.

Sample Input 0



Sample Output 0

```
10
```

Sample Input 1			
1 1 1			
Sample Output 1			
1			
Sample Input 2			
1 1 0			
Sample Output 2			
0			
Sample Input 3			
1 2 1 0			
Sample Output 3			
-1			
Sample Input 4			
1 2 0 0			
Sample Output 4			
0			
Sample Input 5			
1 2 1 1			

Sample Output 5 Sample Input 6 Sample Output 6 Sample Input 7 Sample Output 7 -1 Sample Input 8

```
3
  4
  0
Sample Output 8
  0
Sample Input 9
  3
  5
  3
Sample Output 9
  3
Sample Input 10
  3
  10
  1
  3
  3
  3
  3
  2
Sample Output 10
  3
Sample Input 11
  100
  5
  0
  0
  100
  100
```

Sample Output 11								
	-1							