Given an array of bird sightings where every element represents a bird type id, determine the id of the most frequently sighted type. If more than 1 type has been spotted that maximum amount, return the smallest of their ids.

Example

$arr = [1, 1, 2, 2, 3]$

There are two each of types 1 and 2, and one sighting of type 3. Pick the lower of the two types seen twice: type 1.

Function Description

Complete the migratoryBirds function in the editor below.

migratoryBirds has the following parameter(s):

- int arr[n]: the types of birds sighted

Returns

- int: the lowest type id of the most frequently sighted birds

Input Format

The first line contains an integer, n, the size of arr.

The second line describes arr as n space-separated integers, each a type number of the bird sighted.

Constraints

- $5 \leq n \leq 2 \times 10^5$
- It is guaranteed that each type is 1, 2, 3, 4, or 5.

```
#
# Complete the 'migratoryBirds' function below.
#
# The function is expected to return an INTEGER.
# The function accepts INTEGER_ARRAY arr as parameter.
#

def migratoryBirds(arr):
    # Write your code here
    id_frequency_map = {}

    for idx, ele in enumerate(arr):
        id_frequency_map[ele] = id_frequency_map.get(ele, 0) + 1

    result = None
    max_sighted = float('-inf')

    for key, value in id_frequency_map.items():
        if value == max_sighted:
            result = min(result, key)

        if max_sighted < value:
            max_sighted = value
            result = key

    return result



if __name__ == '__main__': …
```

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You solved this challenge. Would you like to challenge your friends?

Next Challenge

Test case 0
Test case 1
Test case 2
Test case 3
Test case 4
Test case 5

Compiler Message

```
Success
```

Input (stdin) Download

```
6
1 4 4 4 5 3
```

Expected Output Download

```
4
```