Migratory Birds

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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.

Sample Input 0

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

Sample Output 0

```
4
```

Explanation 0

The different types of birds occur in the following frequencies:

- Type 1: 1 bird
- Type 2: 0 birds
- Type 3: 1 bird
- Type 4: 3 birds
- Type 5: 1 bird

The type number that occurs at the highest frequency is type 4, so we print 4 as our answer.

Sample Input 1

```
11
1 2 3 4 5 4 3 2 1 3 4
```

Sample Output 1

```
3
```

Explanation 1

The different types of birds occur in the following frequencies:

- Type **1**: **2**
- Type **2**: **2**
- Type **3**: **3**
- Type **4**: **3**
- Type **5**: **1**

Two types have a frequency of **3**, and the lower of those is type **3**.

Change Theme Language Python 3

```
import re
import sys
from collections import Counter
#
# 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
    counter = Counter(arr)
    max_frequency = max(counter.values())
    bird_type = sys.maxsize
    for k,v in counter.items():
        if v == max_frequency:
            if k < bird_type:
                bird_type = k
    return bird_type

if __name__ == '__main__':
    fptr = open(os.environ['OUTPUT_PATH'], 'w')

    arr_count = int(input().strip())

    arr = list(map(int, input().rstrip().split()))

    result = migratoryBirds(arr)

    fptr.write(str(result) + '\n')

    fptr.close()

```

EMACS Line: 8 Col: 32

Upload Code as File | Test against custom input | Run Code | Submit Code

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43% 635.2/850

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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
```