STUDENT REPORT

DETAILS

Name

KALYANI

Roll Number

3BR23CD040

EXPERIMENT

Title

ELECTIONS

Description

You are the head of the election committee in your village. Each Political party is associated with a unique number and the votes are represented as an integer array A. where each element contains the party number voted for by the villagers. For a party to win, they must have a majority of votes. our task is to find and return an integer value denoting the winning party's number. Return -1 if there is no party with a majority.

Note: If only one vote is there he is the winner.

Input Format :

input1: An integer value representing the number the number of voters

input2: An integer array A representing the votes of the voters.

output Format:

Return an integer value denoting the winning party's number.Return -1 there is no party with a majority

Example 1:

Input:

6

1 1 2 2 2 3

Output:

2

Explanation:

As 2 got the most number of votes i.e 3.

Example 2:

Input:

6

1 2 1 1 2 2

Output:

-1

Explanation:

As both the contestants got same votes there is no majority.

Source Code:

```python
N = int(input())
A = list(map(int,input().strip().split()))[:N]
freq = dict()
for party in A:
    if party in freq.keys():
        freq[party]+=1
    else:
        freq[party]=1
maximum = 0
answer = 0
count = 0
for key,value in freq.items():
    if maximum < value:
        maximum = value
        answer = key
for value in freq.values():
    if maximum==value:
        count+=1
if count>1:
    print(-1)
else:
    print(answer)
```

RESULT

6 / 6 Test Cases Passed | 100 %