STUDENT REPORT

DETAILS

Name

DIVYA D

Roll Number

3BR23CS046

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
def find_winning_party(num_votes):
    vote_counts = {}
    for vote in votes:
        if vote in vote_counts:
            vote_counts[vote]+=1
        else:
            vote_counts[vote]= 1
        majority_threshold=num+voters//2
        for party,count in vote_counts.items():
            if count>majarity_threshold:
                return party
        return -1
```

RESULT

0 / 6 Test Cases Passed | 0 %