STUDENT REPORT

DETAILS

Name

Saleha B

Roll Number

3BR23EE083

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

Source Code:

```python
from collections import Counter
def findMajorityParty(A):
    N=len(A)
    if N ==1:
        returnA[0]
    vote_count = Counter(A)
    for party,votes in vote_count.items():
        if votes > N // 2:
            return party
    return -1

#Example
A=[1,2,1,1,2,2]
print(findMajorityParty(A))
```

Explanation:

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

RESULT

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