



# STUDENT REPORT

## DETAILS

### Name

SHAGUFTHA NIKHAR

### Roll Number

3BR23CD087

## 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:

```
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 %