



# STUDENT REPORT

## DETAILS

### Name

ASRAR AHMED K

### Roll Number

TEMPBTech-ECE023

## 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 %