# STUDENT REPORT

## DETAILS

**Name**

RISHI RAJ SHARMA

**Roll Number**

3BR23CA084

## 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())
arr=list(map(int,input().split()))
d={}
if n==1:
    print(arr[0])
else:
    for i in arr:
        if i not in d:
            d[i]=1
        else:
            d[i]+=1
    x=sorted(d.items(),key=lambda x:x[1],reverse=True)
    if x[0][1]==x[1][1]:
        print(-1)
    else:
        print(x[0][0])
```

## RESULT

6 / 6 Test Cases Passed | 100 %