



# STUDENT REPORT

## DETAILS

### Name

RIDA ARSHAD

### Roll Number

3BR23CD076

## 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 %