



# STUDENT REPORT

## DETAILS

### Name

N Prateeth Bharadwaj

### Roll Number

3BR21EC109

## EXPERIMENT

### Title

#### NUMBER MATCH

### Description

Given a match between team A and team B represented by an array, the task is to determine which team wins based on the occurrences of even and odd numbers in an array.

If an even number has an even occurrence, it supports team A; otherwise, it supports team B.

Similarly, odd numbers support team B if they have even occurrences, otherwise, they support team A.

Determine which team wins and by how many supports. If there's a tie, print 'Tie'.

#### Input Format:

The first line contains an integer n, denoting the number of elements in the array.

The second line contains n integers separated by space, representing the array elements.

#### Output Format:

If either of the team wins display the team name ('A' or 'B') and how much support the team wins separated by space.

Else if there is a tie display "T 0"

#### Sample Input:

6

1 2 2 3 4 4

#### Sample Output:

A 4

### Source Code:

```
n=int(input())
arr=list(map(int,input().split()))
a=0
b=0
for num in set(arr):
    if num%2==0:
        if arr.count(num)%2==0:
            a+=1
        else:
            b+=1
    else:
        if arr.count(num)%2==0:
            b+=1
        else:
            a+=1
if a>b:
    print("A",a-b)
elif b>a:
    print("B",b-a)
else:
    print("T 0")
```

## RESULT

5 / 5 Test Cases Passed | 100 %