



STUDENT REPORT

DETAILS

Name

RISHI U

Roll Number

3BR24AI403T

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.

Rules:

- 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.
- If there's a tie, print 'T 0'.

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())
l = list(map(int, input().split()))
counts = {}
a, b = 0, 0

for num in l:
    counts[num] = counts.get(num, 0) + 1

for num, count in counts.items():
    if (num % 2 == 0 and count % 2 == 0) or (num % 2 != 0 and count % 2 != 0):
        a += 1
    else:
        b += 1

if a > b:
    print(f"A {a - b}")
elif b > a:
    print(f"B {b - a}")
else:
    print("T 0")
```

RESULT

3 / 5 Test Cases Passed | 60 %