STUDENT REPORT

DETAILS

Name

SAMALA JAHNAVI

Roll Number

23D21A05H4

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:

```python
from collections import Counter
def determine_winner(arr):
    count = Counter(arr)
    teamA = 0
    teamB = 0
    for num,freq in count.items():
        if num % 2 == 0:
            if freq % 2 == 0:
                teamA += 1
            else :
                teamB += 1
        else :
            if freq % 2 == 0:
                teamB += 1
            else :
                teamA += 1
    if teamA > teamB:
        return f"A {teamA}"
    elif teamB > teamA:
        return f"B {teamB}"
    else:
        return "T 0"
n = int(input())
arr = list(map(int,input().split()))
print(determine_winner(arr))
```

RESULT

5 / 5 Test Cases Passed | 100 %