STUDENT REPORT

DETAILS

Name

Saleha B

Roll Number

3BR23EE083

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:

```
from collections import Counter

def team_winner(n, arr):
    # Step 1: Count occurrences of each number
    counts = Counter(arr)

    # Initialize support for both teams
    team_a_support = 0
    team_b_support = 0

    # Step 2: Determine support for each number
    for num, count in counts.items():
        if num % 2 == 0:  # Even number
            if count % 2 == 0:
                team_a_support += num
            else:
                team_b_support += num
        else:  # Odd number
            if count % 2 == 0:
                team_b_support += num
            else:
                team_a_support += num

    # Step 3: Determine the result
    if team_a_support > team_b_support:
        print(f"A {team_a_support}")
    elif team_b_support > team_a_support:
        print(f"B {team_b_support}")
    else:
        print("T 0")

# Sample Input
n = int(input())  # Number of elements in the array
arr = list(map(int, input().split()))  # Array of elem
ents

# Call the function with the input
team_winner(n, arr)
```

RESULT

0 / 5 Test Cases Passed | 0 %