

Logo



STUDENT REPORT

DETAILS

Name

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Roll Number

3BR23EC111

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 O'.

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 O"

Sample Input:

6
1 2 2 3 4 4

Sample Output:

A 4

Source Code:

```

def determine_winner(n, arr):
    from collections import Counter

    # Count occurrences of each number
    counts = Counter(arr)

    team_a_support = 0
    team_b_support = 0

    for num, count in counts.items():
        if num % 2 == 0: # Even number
            if count % 2 == 0:
                team_a_support += num * count # Supports team A
            else:
                team_b_support += num * count # Supports team B
        else: # Odd number
            if count % 2 == 0:
                team_b_support += num * count # Supports team B
            else:
                team_a_support += num * count # Supports team A

    # Determine the winner or tie
    if team_a_support > team_b_support:
        return f"A {team_a_support}"
    elif team_b_support > team_a_support:
        return f"B {team_b_support}"
    else:
        return "T 0"

# Sample Input
n = 6
arr = [1, 2, 2, 3, 4, 4]

# Finding the winner
result = determine_winner(n, arr)
print(result) # Output: "A 4"

```

RESULT

0 / 5 Test Cases Passed | 0 %