3822

A BALLING RASE BARALING RASE B



DETAILS

Name

MADHU.K

Roll Number

3BR23EE057

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.

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- 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

122344

Sample Output:

A 4

3

Source Code: 3BR2

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```
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
   # Determine support based on occurrences
   for num, count in counts.items():
       if num % 2 == 0: # Even number
           if count % 2 == 0:
               team_a_support += count # Supports team A
           else:
               team_b_support += count # Supports team B
       else: # Odd number
           if count % 2 == 0:
               team_b_support += count # Supports team B
           else:
               team_a_support += count # Supports team A
   # Determine the result
   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 = int(input().strip())
arr = list(map(int, input().strip().split()))
# Output the result
                                                                                                       223EL 3BR23E
print(determine_winner(n, arr))
```

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