Logo

STUDENT REPORT

DETAILS

Name

M DEEPIKA

Roll Number

KUB23CSE068

EXPERIMENT

Title

CHOCOLATE JAR

Description

You are given an integer array of size N, representing jars of chocolates. Three students A, B, and C respectively, will pick chocolates one by one from each chocolate jar, till the jar is empty, and then repeat the same with the rest of the jars. Your task is to fine and return an integer value representing the total number of chocolates that student A will have, after all the chocolates have been picked from all the jars.

Note: Once a jar is done A will start taking the chocolates from the new jar.

Input Format :

input1: An integer value N representing the number of jars.

input2: An integer array representing the quantity of chocolates in each jar.

Output Format:

Return an integer value representing the total number of chocolates that student A will have, after all the chocolates are picked.

Example:

Input:

3

10 20 30

Output:

21

Explanation:

Jar 1: 10 chocolates -> A-4, B-3,C-3

Jar 2: 20 chocolates -> A-7, B-7, C-6

Jar 3: 30 chocolates -> A-10, B-10,C-10

so A gets a total of 4+7+10=21 chocolates.

Source Code:

```
def total_chocolates_for_A(chocolates):
    total_chocolates_A = 0

    # Iterate through each jar
    for jar in chocolates:
        # Full cycles where A gets 1 chocolate per cycle
        total_chocolates_A += jar // 3

        # If there are leftover chocolates and A gets 1 more
        if jar % 3 >= 1:
            total_chocolates_A += 1

    return total_chocolates_A
jar=int(input())
chocolates=list(map(int,input(). split ()))
print(total_chocolates_for_A(chocolates))
```

RESULT

5 / 5 Test Cases Passed | 100 %