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[All Contests](#) > [PL-2022-Lab-11](#) > Add Alternate Elements of 2-Dimensional Array

# Add Alternate Elements of 2-Dimensional Array

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Problem

Submissions

Leaderboard

Discussions

You are given a two-dimensional 3\*3 array starting from A [0][0]. You should add the alternate elements of the array and print its sum. It should print two different numbers the first being sum of A 0 0, A 0 2, A 1 1, A 2 0, A 2 2 and A 0 1, A 1 0, A 1 2, A 2 1.

## Input Format

First and only line contains the value of array separated by single space.

A 0 0	A 0 1	A 0 2
4	6	9
A 1 0	A 1 1	A 1 2
2	5	8
A 2 0	A 2 1	A 2 2
1	3	7

## Constraints

-

## Output Format

First line should print sum of A 0 0, A 0 2, A 1 1, A 2 0, A 2 2 Second line should print sum of A 0 1, A 1 0, A 1 2, A 2 1

## Sample Input 0

1 2 3 4 5 6 7 8 9

## Sample Output 0

25  
20 

Submissions: 1262

Max Score: 100

Difficulty: Medium

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☆☆☆☆☆

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C



```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int main() {
7
8     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9     int a[3][3], i, j, sum1=0, sum2=0;
10    for(i=0; i<3; i++)
11    {
12        for(j=0; j<3; j++)
13        {
14            scanf("%d ", &a[i][j]);
15        }
16    }
17    for(i=0; i<3; i++)
18    {
19        for(j=0; j<3; j++)
20        {
21            if(a[i][j]==a[0][0] || a[i][j]==a[0][2] || a[i][j]==a[1][1] || a[i][j]==a[2][0] || a[i][j]==a[2][2])
22            {
23                sum1+=a[i][j];
24            }
25            else
26            {
27                sum2+=a[i][j];
28            }
29        }
30    }
31    printf("%d\n", sum1);
32    printf("%d\n", sum2);
33    return 0;
34 }
35
```

Line: 1 Col: 1

[Upload Code as File](#)[Test against custom input](#)[Run Code](#)[Submit Code](#)