Adding complex numbers using structure

locked

Problem Submissions Leaderboard Discussions

Create following function to add all the complex numbers and return the result.

For definition of *Complex*, refer the given code stub.

```
/* Returns sum of all the complex numbers in the array */
Complex sum(Complex cnums[], int n);
```

Input Format

First line will contain integer *n*, which represents count of complex numbers in the input.

Next *n* lines contain two integers each separated by space, representing real and imaginary part of the complex number.

Constraints

1 <= n <= 100

Output Format

Output contains two integers separated by space, representing real and imaginary part of the complex number (sum of all the numbers in the input)

Sample Input 0

```
2
1 2
3 4
```

Sample Output 0

```
4 6
```

Sample Input 1

```
4
1 1
2 3
3 2
4 4
```

Sample Output 1

```
10 10
```

Submissions: 136
Max Score: 10
Difficulty: Medium

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C

```c
#include <stdio.h>

typedef
struct Cmplx {
    int real, img;
} Complex;


Complex sum(Complex cnums[], int n) {
    /* Write your code here */
}

int main() {

    int n;
    scanf("%d", &n);
    Complex input_numbers[n];
    for(int i = 0; i < n; i++)
        scanf("%d %d", &input_numbers[i].real, &input_numbers[i].img);
    Complex result = sum(input_numbers, n);
    printf("%d %d", result.real, result.img);
    return 0;
}
```

Line: 1 Col: 1

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