Sum and Difference of Two Numbers

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Objective

The fundamental data types in c are int, float and char. Today, we're discussing int and float data types.

The `printf()` function prints the given statement to the console. The syntax is `printf("format string",argument_list);`. In the function, if we are using an integer, character, string or float as argument, then in the format string we have to write %d (integer), %c (character), %s (string), %f (float) respectively.

The `scanf()` function reads the input data from the console. The syntax is `scanf("format string",argument_list);`. For ex: The `scanf("%d",&number)` statement reads integer number from the console and stores the given value in variable ***number***.

To input two integers separated by a space on a single line, the command is `scanf("%d %d", &n, &m)`, where n and m are the two integers.

Task

Your task is to take two numbers of int data type, two numbers of float data type as input and output their sum:

1. Declare 4 variables: two of type int and two of type float.
2. Read 2 lines of input from stdin (according to the sequence given in the 'Input Format' section below) and initialize your 4 variables.
3. Use the $+$ and $-$ operator to perform the following operations:
   - Print the sum and difference of two int variable on a new line.
   - Print the sum and difference of two float variable rounded to one decimal place on a new line.

Input Format

The first line contains two integers.

The second line contains two floating point numbers.

Constraints

- $1 \leq$ integer variables $\leq 10^4$
- $1 \leq$ float variables $\leq 10^4$

Output Format

Print the sum and difference of both integers separated by a space on the first line, and the sum and difference of both float (scaled to 1 decimal place) separated by a space on the second line.

Sample Input

```
10 4
4.0 2.0
```

Sample Output

```
14 6
6.0 2.0
```

Explanation

When we sum the integers 10 and 4, we get the integer 14. When we subtract the second number 4 from the first number 10, we get 6 as their difference.

When we sum the floating-point numbers 4.0 and 2.0, we get 6.0. When we subtract the second number 2.0 from the first number 4.0, we get 2.0 as their difference.

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```
1  #include <stdio.h>
```

```c
#include <string.h>
#include <math.h>
#include <stdlib.h>

int main()
{
    int a, b;
    float x, y;

    // Reading two integers
    scanf("%d %d", &a, &b);

    // Reading two floating point numbers
    scanf("%f %f", &x, &y);

    // Calculating and printing the sum and difference of integers
    printf("%d %d\n", a + b, a - b);

    // Calculating and printing the sum and difference of floating point numbers
    printf("%.1f %.1f\n", x + y, x - y);

    return 0;
}
```

Line: 25 Col: 1

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