

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:
 - o Print the sum and difference of two `int` variable on a new line.
 - o 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

- $1 \leq \text{integer variables} \leq 10^4$
- $1 \leq \text{float variables} \leq 10^4$

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.

Answer: (penalty regime: 0 %)

```

1 #include <stdio.h>
2 int main() {
3     int a,b;
4     float c,d;
5     scanf("%d %d",&a,&b);
6     scanf("%f %f",&c,&d);
7     printf("%d %d",a+b,a-b);
8     printf("\n%.1f %.1f",c+d,c-d);
9     return 0;
10 }
```

	Input	Expected	Got	
✓	10 4 4.0 2.0	14 6 6.0 2.0	14 6 6.0 2.0	✓
✓	20 8 8.0 4.0	28 12 12.0 4.0	28 12 12.0 4.0	✓

Passed all tests! ✓

Input	Expected	Got
✓ €	€	€ ✓

Passed all tests! ✓

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:
 - o Print the sum and difference of two `int` variable on a new line.
 - o 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

- $1 \leq \text{integer variables} \leq 10^4$
- $1 \leq \text{float variables} \leq 10^4$

Objective

This challenge will help you to learn how to take a character, a string and a sentence as input in C.

To take a single character **ch** as input, you can use `scanf("%c", &ch);` and `printf("%c", ch)` writes a character specified by the argument `ch` to `stdout`:

```
char ch;  
scanf("%c", &ch);  
printf("%c", ch);
```

This piece of code prints the character **ch**.

Task

You have to print the character, **ch**.

Input Format

Take a character, **ch** as input.

Output Format

Print the character, **ch**.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>  
2 int main() {  
3     char ch;  
4     scanf("%c", &ch);  
5     printf("%c", ch);  
6     return 0;  
7 }  
8
```

Input	Expected	Got	
✓ c	c	c	✓

Passed all tests! ✓

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

Objective

This challenge will help you to learn how to take a character, a string and a sentence as input in C.

To take a single character **ch** as input, you can use `scanf("%c", &ch);` and `printf("%c", ch)` writes a character specified by the argument `ch` to `stdout`.

```
char ch;  
scanf("%c", &ch);  
printf("%c", ch);
```

This piece of code prints the character **ch**.

Task

You have to print the character, **ch**.

Input Format

Take a character, **ch** as input.

Output Format

Print the character, **ch**.

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>  
2 int main() {  
3     char ch;  
4     scanf("%c", &ch);  
5     printf("%c", ch);  
6     return 0;
```

Output Format

Print each element on a new line in the same order it was received as input. Note that the floating point value should be correct up to 5 decimal places and the double to 9 decimal places.

Sample Input

```
3 12345678912345 a 334.23 14049.30493
```

Sample Output

```
3
12345678912345
a
334.230
14049.304930000
```

Explanation

Print int 3.

followed by long 12345678912345.

followed by char a.

followed by float 334.23.

followed by double 14049.30493.

Answer: penalty: 0 %

```
1 #include <stdio.h>
2 int main() {
3     int a;
4     long b;
5     char c;
6     float d;
7     double e;
8     scanf("%d%ld%c%f%lf", &a, &b, &c, &d, &e);
9     printf("%d\n%ld\n%c\n%f\n%lf", a, b, c, d, e);
10    return 0;
11 }
```

	Input	Expected	Got	
✓	3 12345678912345 a 334.23 14049.30493	3 12345678912345 a 334.230 14049.304930000	3 12345678912345 a 334.230 14049.304930000	✓

Passed all tests! ✓

Write a program to input a name (as a single character) and marks of three tests as m1, m2, and m3 of a student considering all the three marks have been given in integer format.

Now, you need to calculate the average of the given marks and print it along with the name as mentioned in the output format section.

All the test marks are in integers and hence calculate the average in integer as well. That is, you need to print the integer part of the average only and neglect the decimal part.

Input format :

Line 1 : Name(Single character)

Line 2 : Marks scored in the 3 tests separated by single space.

Output format :

First line of output prints the name of the student.

Second line of the output prints the average mark.

Constraints

Marks for each student lie in the range 0 to 100 (both inclusive)

Sample Input 1 :

Quizzes 3
Correct
Marked out of
7.00
Flag question

Write a program to print the ASCII value and the two adjacent characters of the given character.

Input

E

Output

69

D F

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 int main() {
3     char ch;
4     scanf("%c",&ch);
5     printf("%d",ch);
6     printf("\n%c %c",ch-1,ch+1);
7     return 0;
8 }
```

	Input	Expected	Got	
✓	E	69 D F	69 D F	✓

Passed all tests! ✓

Finish review

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Sample Input 2 :

T
7 3 8

Sample Output 2 :

T
6

Answer: (specially regime: 0 %)

```

1 #include <stdio.h>
2 int main() {
3     char name;
4     int n1,n2,n3,avg;
5     scanf("%c",&name);
6     scanf("%d %d %d",&n1,&n2,&n3);
7     avg=(n1+n2+n3)/3;
8     printf("%c",name);
9     printf("\n%d",avg);
10    return 0;
11 }
12

```

	Input	Expected	Got	
✓	A 1 4 6	A 4	A 4	✓
✓	T 7 3 8	T 6	T 6	✓
✓	R 0 100 99	R 66	R 66	✓

Passed all tests! ✓

Question 2
Correct
Marked out of 3.00
Flag question

Some C data types, their format specifiers, and their most common bit widths are as follows:

- `int` ("%d"): 32-bit integer
- `long` ("%ld"): 64-bit integer
- `char` ("%c"): Character type
- `float` ("%f"): 32-bit real value
- `double` ("%lf"): 64-bit real value

Reading

To read a data type, use the following syntax:

```
scanf("format_specifier", &var)
```

For example, to read a character followed by a double:

```
char ch;  
double d;  
scanf("%c %lf", &ch, &d);
```

For the moment, we can ignore the spacing between format specifiers.

Printing

To print a data type, use the following syntax:

```
printf("format_specifier", var)
```

For example, to print a character followed by a double:

```
char ch = 'd';  
double d = 234.432;  
printf("%c %lf", ch, d);
```

Note: You can also use `ch` and `col` instead of `scanf` and `printf`. However, if you are taking a million numbers as input and printing a million lines, it is faster to use `scanf` and `printf`.

Input Format

Input consists of the following space-separated values: `int`, `long`, `char`, `float`, and `double`, respectively.

Output Format

Print each element on a new line in the same order it was received as input. Note that the floating point value should be correct up to 3 decimal places and the double to 9 decimal places.

Sample Input

```
3 12345678912345 a 334.23 14049.30493
```

Sample Output

```
3  
12345678912345  
a  
334.230  
14049.304930000
```

Explanation

Print `int 3`,

followed by `long 12345678912345`,

followed by `char a`,

followed by `float 334.23`,

Now, you need to calculate the average of the given marks and print it along with the name as mentioned in the output format section.

All the test marks are in integers and hence calculate the average in integer as well. That is, you need to print the integer part of the average only and neglect the decimal part.

Input format :

Line 1 : Name(Single character)

Line 2 : Marks scored in the 3 tests separated by single space.

Output format :

First line of output prints the name of the student.

Second line of the output prints the average mark.

Constraints

Marks for each student lie in the range 0 to 100 (both inclusive)

Sample Input 1 :

A
3 4 6

Sample Output 1 :

A
4

Sample Input 2 :

T
7 3 8

Sample Output 2 :

T
6

Answer: (penalty regime: 0 %)