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GE23131-Programming Using C-2024

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Question 1

Correct

Answered out of 100

Flag question

Write a program to input a name (as a single character) and marks of three tests as int, int, and int 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 float 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
34 6

Sample Output 1 :

A
4

Sample Input 2 :

T
73 9

Sample Output 2 :

T
6

Answer: (overall response: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     char name;
5     int m1,m2,m3;
6     scanf("%c",&name);
7     scanf("%d %d %d",&m1,&m2,&m3);
8     if(m1>100 || m2>100 || m3>100)
9     {
10         printf("Invalid marks\n\n");
11     }
12     else
13     {
14         printf("%c",name);
15         printf("\n%d",(m1+m2+m3)/3);
16     }
17     return 0;
18 }
```

Input	Expected	Got
✓ A A A	A A A	✓
✓ T 73 9	T 6	✓
✓ A 9 100 10	A 9	✓

Passed all tests! ✓

Question 2

Correct

Answered out of 100

Flag question

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

- `int` ("i"): 32-bit integer
- `long` ("l"): 64-bit integer
- `char` ("c"): Character type
- `float` ("f"): 32-bit real value
- `double` ("d"): 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;`

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 = 'A';`

`double d = 3.14159;`

`printf("%c %f", ch, d);`

Note: You can also use `ch` and `out` instead of `ch` and `printf`. However, if you are doing a million reads on input and writing a million times, 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 mentioned in 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

123456789

A

3.14159

14048.304930000

Explanation

Print int A,

followed by long 12345678912345,

followed by char A,

followed by float 3.14159,

followed by double 14048.30493.

```
1 #include <stdio.h>
2 int main()
3 {
4     int n;
5     long l;
6     char c;
7     float f;
8     double d;
9     scanf("%d %ld %c %f %lf",&n,&l,&c,&f,&d);
10    printf("%d %ld %c %f %lf",n,l,c,f,d);
11    return 0;
12 }
```

Input	Expected	Got
✓ 3 12345678912345 A 3.14159 14048.304930000	3 12345678912345 A 3.14159 14048.304930000	✓

Passed all tests! ✓

Question 3

Correct

Answered out of 100

Flag question

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

Input

T

Output

69
D F

Answer: (overall response: 0 %)

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

Input	Expected	Got
✓ T 69 D F	T 69 D F	✓

Passed all tests! ✓

Flag question