GE23131-Programming Using C-2024

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 18 October 2024, 2:49 PM
Duration	66 days 2 hours

Question 1

Correct

Marked out of 3.00

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:

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 %)

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

	Input	Expected	Got	
✓	A 3 4 6	A 4	A 4	✓
✓	T 7 3 8	T 6	T 6	✓
✓	8 0 100 96	8 66	8 66	✓

Passed all tests! ✓

Question 2

Correct

Marked out of 3.00

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 ", &val)

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 ", val)

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 cin and cout 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.
followed by double 14049.30493.

Answer: (penalty regime: 0 %)

```c
1  #include<stdio.h>
2  int main(){
3      int i;
4      long l;
5      char c;
6      float f;
7      double d;
8      scanf("%d%ld\n%c\n%f%lf",&i,&l,&c,
9      printf("%d\n%ld\n%c\n%0.3f\n%.9lf",i,l
10     return 0;
11 }
```

	Input	Expec
✓	3 12345678912345 a 334.23 14049.30493	3 12345 a 334.2 14049

Passed all tests! ✓

Question 3

Correct

Marked out of 7.00

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 %)

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

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

Passed all tests! ✓

Finish review