BASKAR A 2024-CSE

Week-01-Overview of C, Constants, Variables and Data Types

Week-01-01-Practice Session-Coding

Question 1
Correct
Marked out of 3.00

F Flag question

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.

Source code

Answer: (penalty regime: 0 %)

```
#include <stdio.h>
    int main()
 2
 3 ▼ {
 4
         char n;
         int a,m1,m2,m3;
 5
         scanf("%c",&n);
 6
 7
         scanf("%d%d%d", &m1,&m2,&m3);
         a = (m1+m2+m3)/3;
 8
        printf("%c",n);
 9
         printf("\n%d",a);
10
11
         return 0;
12
13
14
```

Result

	Input	Expected	Got	
~	А	А	А	~
	3 4 6	4	4	
~	Т	Т	Т	~
	7 3 8	6	6	
~	R	R	R	~
	0 100 99	66	66	

Passed all tests! <

Question **2**Correct
Marked out of

5.00

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`", &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);

Source code

```
Answer: (penalty regime: 0 %)
      #include <stdio.h>
      int main()
   2
   3 ▼ {
   4
   5
          int a;
          long b;
   6
          char c;
   7
          float d;
   8
   9
          double e;
          scanf("%d %ld %c %f %lf",&a,&b,&c,&d,&e);
  10
          printf("%d \n%c \n%o.3f \n%o.9lf", a,b,c,d,e);
  11
  12
  13
          return 0;
  14
  15
  16 }
```

Result

	Input	Expected	Got	
~	3 12345678912345 a 334.23 14049.30493	_	3	~
		12345678912345	12345678912345	
		a 334.230	a 334.230	
			14049.304930000	

Passed all tests! <

Question **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

Source code

```
Answer: (penalty regime: 0 %)
       #include <stdio.h>
    2
       int main()
    3 ▼
    4
           int b;
    5
           char a;
    6
           scanf("%c",&a);
    7
           b=a;
           printf("%d\n",b);
    8
           printf("%c %c",a-1,a+1);
    9
   10
           return 0;
   11
   12 }
```

Result

