

SOLUTION SHEET 1.0

Problem description: Calculate the average of n numbers where n is entered by the user.
The user has to also enter each number and how many times (t) that number is present in the series.
Specify the necessary operations to obtain the result.

Size : Small
Domain : Mathematics
Complexity : Simple

Variables type : Decimal
Python variables type : Float

FREQUENCY TABLE

	Number	Times
X1	a	d
X2	b	e
Xn	c	f

Enter the numbers:

X_1, \dots, X_N →

Enter how many times repeat each number:

Y_1, \dots, Y_N →

BLACK BOX

The average is:
$$\frac{(\sum X * Y)}{\sum Y}$$

FLOWCHART

START

ENTER THE NUMBERS, X_1, \dots, X_N

ENTER THE TIMES OF REPETITION, Y_1, \dots, Y_N

THE AVERAGE IS: $(\sum X * Y) / \sum Y$

END