Write a program that computes and displays the area of a rectangle and an ellipse whose side values are given. First, the program will read two int values: a and b. Then, it will calculate two area values, both as doubles:

- 1. The area of the rectangle whose sides are a and b.
- 2. The area of the ellipse whose major and minor axis lengths are a and b respectively.

Lastly, your program will print the resulting area values to the console as seen in the examples.

NOTE: The area of a rectangle whose sides are a and b: **Area = a*b**

NOTE: The area of an ellipse whose major and minor axis lengths are a and b: Area = PI * a *b

NOTE: Take PI as 3.14

Input	4 6	9 12	65 3
Output		rectangle is 108 The	The area of the rectangle is 195 The area of the ellipse is 612.300000

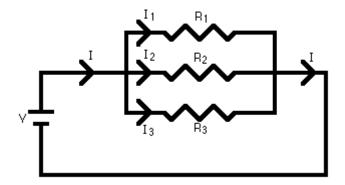
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Write a program that reads an UPPERCASE letter (i.e., 'B', 'H') and tells the index of that letter in the English alphabet (i.e., 'B' is the 2nd letter in the English Alphabet, 'H' is the 8th letter in the English Alphabet).

Input	В	Н	M
Output	2	8	13

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Write a program that calculates the currents on three parallel branches in the circuit show below.



The program will read the input voltage, V, and the three resistance values, 1, 2, and 3, all as double values. Then, it will calculate the currents passing through each branch, 1, 2, and 3 all as double values and prints them to the console.

HINT: Ohm's Law: V = I * R This law applies to all circuits and also all branches individually.

HINT: Due to Ohm's Law, the voltage passing through each branch is the same and equal to V.

NOTE: All of the inputs will be positive values.

Input	21	13	5
	478	3 6 12	282
Output	5.250000 3.000000 2.625000	4.333333 2.166667 1.083333	2.500000 0.625000 2.500000

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