C++ Programming Division and Modulus Homework 1

Mostafa S. Ibrahim
Teaching, Training and Coaching since more than a decade!

Artificial Intelligence & Computer Vision Researcher PhD from Simon Fraser University - Canada Bachelor / Msc from Cairo University - Egypt Ex-(Software Engineer / ICPC World Finalist)



Problem #1: Averages

- Write a program that reads 5 numbers and print the following:
 - A) Their average
 - B) The sum of the first 3 numbers divided by the sum of the last 2 numbers
 - o C) The average of the first 3 numbers divided by the average of the last 2 numbers.
 - O What is the math relation between B and C?
- Input 1 2 3 4 5
 - 0 3
 - 0.666666667
 - 0.44444444

Problem #2: Fractional Part

- Write a program that reads 2 numbers a, b and divides them (a/b), but prints only the fraction part
- Input: 201 25
- Output: 0.04
 - o Notice: 201 / 25 = 8.04
 - We only want the fraction part: 0.04

Problem #3: Our remainder

- We know N % M computes the remainder of division
- Write a program that reads 2 positive integers and print such reminder without using the modulus operator %
- Input: 27 12
- Output: 3
 - Remember in math: 27 % 12 = 3

"Acquire knowledge and impart it to the people."

"Seek knowledge from the Cradle to the Grave."