

HW01 - Due Sunday 7 February 2016 before
11:59 PM

Dr. Touma

January 28, 2016

Write a C program that lets the user input the grades for a number of students (a variable) and computes the following:

1. the average of the grades (μ)
2. the variance of the grades (σ^2)
3. the highest grade
4. the lowest grade
5. a table showing the distribution of grades (use my grading scale for this)

You need to use looping constructs, if and if-else or select-case. Go back to the first lecture and see the code on how to nicely format the output.

Here are the formulas for the mean and variance for a sequence of numbers (array) x_i

$$\mu = \frac{\sum_{i=1}^n x_i}{n}$$
$$\sigma^2 = \frac{\sum_{i=1}^n x_i^2}{n} - \mu^2$$