SOEN 384

Homework 2

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Section 1

Figure 1: Box plot for Task 1

Figure 2: Effort per Student for Task 2

Figure 3: Control Chart per Student for Task 3

Section 2

Task 1:

Looking at the data from both the box plot and the collected data, most of the students were within a similar range of each. However, there were a few outliers on either end. One student took over 180 minutes to complete his/her task whereas another took as little as 6 minutes. This could depend on the language being used by the student and his/her comprehension of said language. Either way, it’s almost clear how deterministic of efficiency in time use for the given simplistic task (i.e. simple Google search to a mathematic formula).

Task 2:

Again, the reason for any variation is mostly due to choice of programming language (i.e. matlab vs C vs. Java) which in many cases affect SLOC since one languages math libraries may be extensive than another’s and easier to execute (i.e matlab) whereas other SLOC in other languages may be “wasted” assigning/declaring variables and data types rather than just getting to the task (i.e. Java).

Task 3:

The majority of students were within the norm of their deviation. However, there were still a surprising amount of those who underperformed and struck well above the standard deviation.

**\*NOTE: Accidentally, for Task 3, I misread the instructions and used 3 times the norm of standard deviation as opposed to 2. Regardless, upon another look, my statement still remains unchanged about how productive the students were.\***