CS3560 Homework 3

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In order to find the standard deviation for a given set of numbers the equation

$$stddev = \sqrt{\frac{1}{n-1}\sum_{i=1}^{n}(x - \bar{x})^2}$$

where n corresponds to the total number of numbers being combined, and $barx$ corresponds to the average of the numbers. This calculation is widely used by researches, scientists, as well as engineers due to its ability to calculate the range of a given set of data.