CS3560 Homework 3: GDB

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The standard deviation function, $\sqrt{\frac{1}{N}\sum_{i=1}^{N}(a_i - \mu)^2}$, determines the variation in a set of data, where μ is the mean, and x_i is the data at the given index i, and N is the number of data. To find it, you calculate the sum from 1 to N of $(a_i - \mu)$, then square it. After that, you simply divide by the number of data, and take the square root of it.