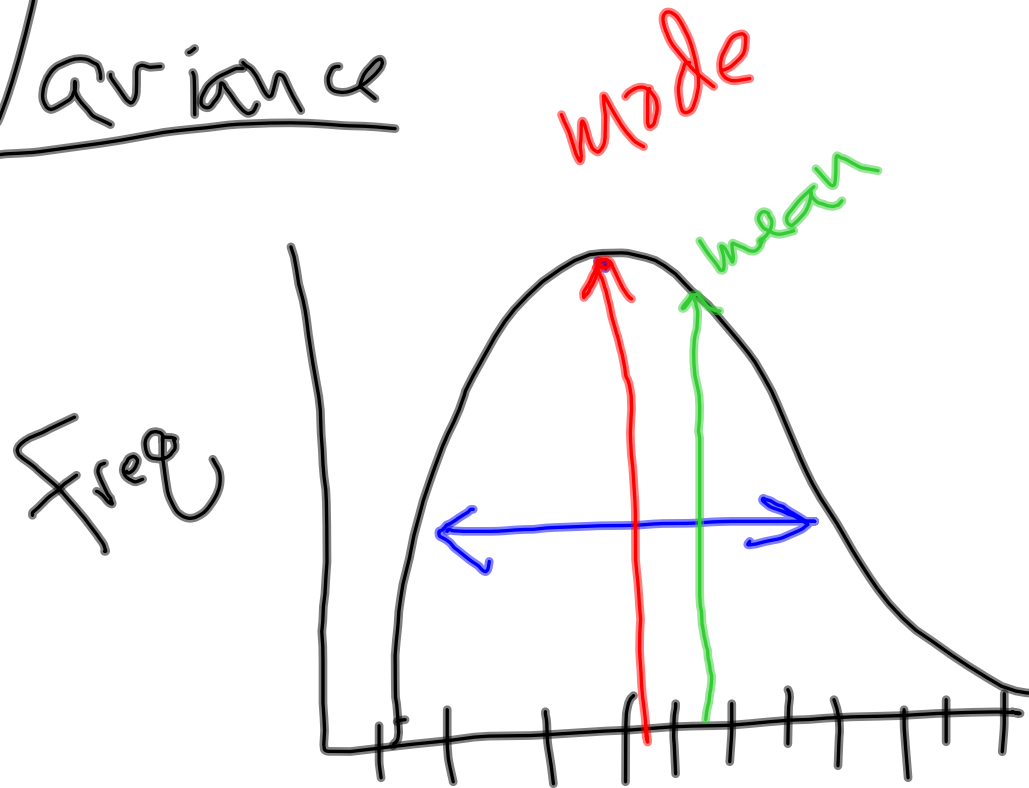


Variance

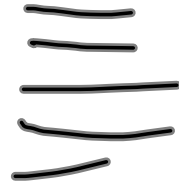


$$\text{Var}(\underline{x}) = \frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1}$$

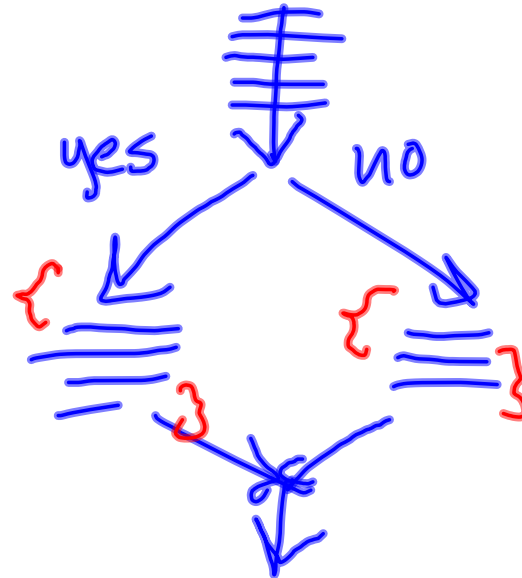
$$\text{Std}(\underline{x}) = \sqrt{\text{Var}(\underline{x})}$$

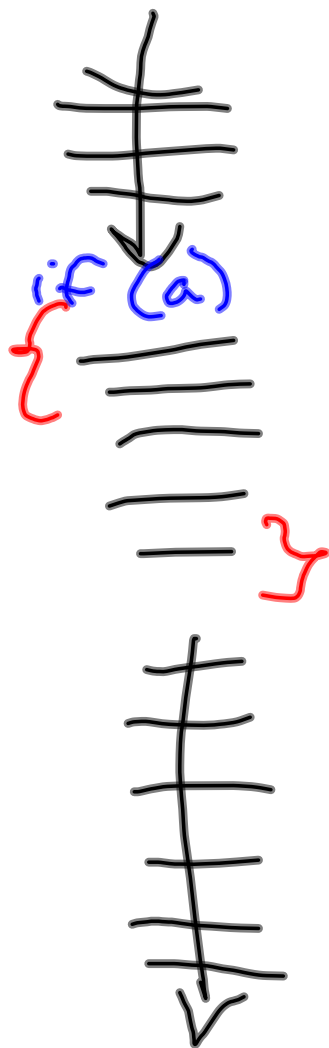
Program Flow Control

default
execute lines as encountered



branch





x initial vector
y cumulative of x

$$y_i = \sum_{j=1}^i x_j$$

long-tailed distribution



$$\text{normal } p(x) = \frac{e^{-\frac{1}{2} \left(\frac{x-\mu}{\sigma} \right)^2}}{\sqrt{2\pi}\sigma}$$