Correlation Pseudo code

average

start with totalX (wins) & totalY (payroll)
↳ set to 0 before

For loop → run 30 times
↳ add next Int to totalX, totalY
↳ 2 variables X 30 iterations = 60 data points

Divide both totalX, totalY by (30) ← keep 30 a constant

Standard Deviation

Start with totalX, totalY ⇒ set to 0 initially

For loop → run 30 times
totalX += (next Int - averageX)^2
totalY += (next Int - averageY)^2

First Divide by (29) → (30-1) and then square root the result

Correlation coefficient

Correlation Total = 0

For loop → run 30 times

$$\text{Correlation Total} += \frac{(\text{next Int} - \text{average X})}{\text{stdev X}} \times \frac{(\text{next Int} - \text{average Y})}{\text{stdev Y}}$$

$$r = \frac{1}{(29) \rightarrow (30-1)} \times \text{correlation Total}$$