Correlation Algorithm

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Pearson correlation is a function of capturing correlation coefficient of S&P500 (vector\_x) and Schiller P/E (vector\_y) at a certain time. Correlation coefficients range from -1 to 1. The value Correlation coefficients reflects a linear correlation of variables. If the value is close to -1, S&P500 (vector\_x) and Schiller P/E have strong negative correlation. If the value is close to 1, S&P500 (vector\_x) and Schiller P/E have strong positive correlation. If the value is close to 0, S&P500 (vector\_x) and Schiller P/E weak linear relationship.