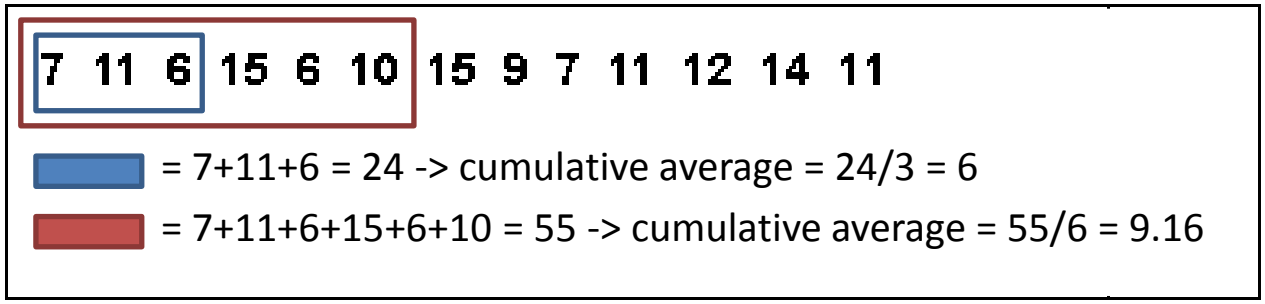
BLG 102 E Lab Session Week 07

Cumulative Average



Cumulative Average is the average of the data up until the newest data

$$\frac{\sum_{i=0}^{i=t} a_i}{t+1}$$

https://www.investopedia.com/university/movingaverage/movingaverages1.asp

Simple Moving Average

7 11 6 15 6 10 15 9 7 11 12 14 11

15+6+10+15+9+7+11+12+14+11 = 110

simple moving average = 110/10 = 11

where n = 10

Simple Moving Average is the average of the newest n data

$$\frac{\sum_{i=t-n}^{i=t} a_i}{n}$$

https://www.investopedia.com/university/movingaverage/movingaverages1.asp

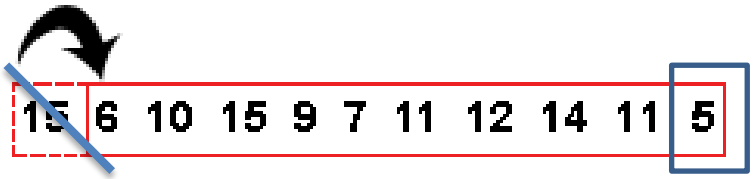
Simple Moving Average

7 11 6 15 6 10 15 9 7 11 12 14 11

15+6+10+15+9+7+11+12+14+11 = 110

simple moving average = 110/10 = 11

where n = 10



15+6+10+15+9+7+11+12+14+11+5 = 100

simple moving average = 100/10 = 10

where n = 10

https://www.investopedia.com/university/movingaverage/movingaverages1.asp

Simple Moving Average

Simple Moving Average where N = 100 days

Simple Moving Average where N = 50 days

https://www.investopedia.com/university/movingaverage/movingaverages1.asp

Write a program that

- Gets a sequence of data from the user
- Calculates cumulative average
- Calculates moving average for N
- Prints them to the screen