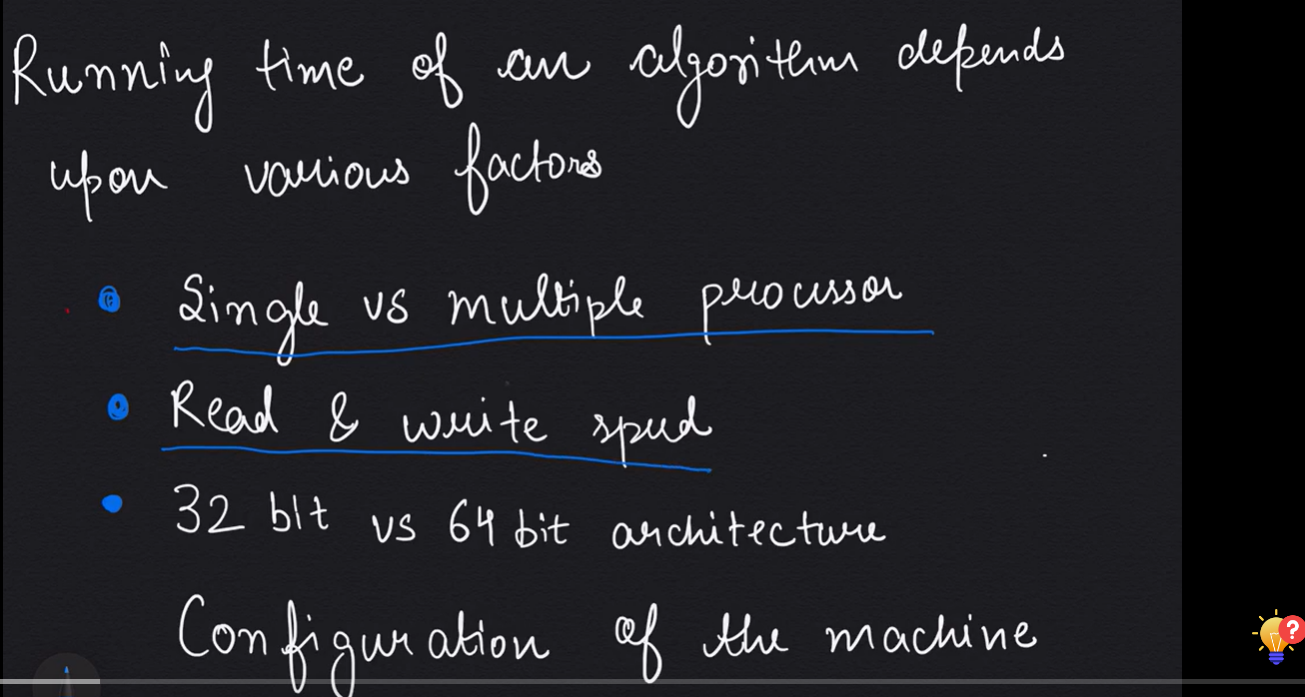
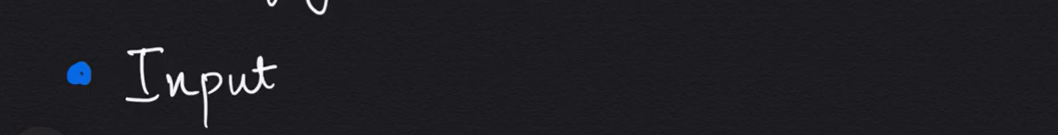
# Time Complexity

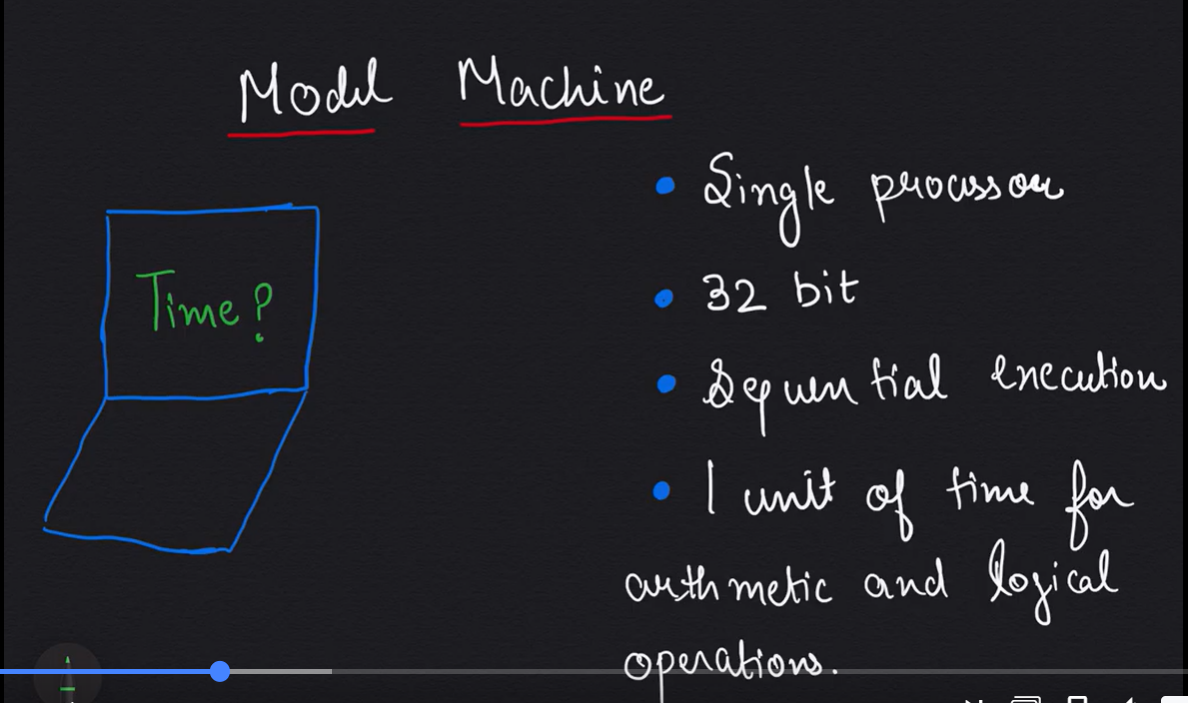
## How to analyse the time complexity?

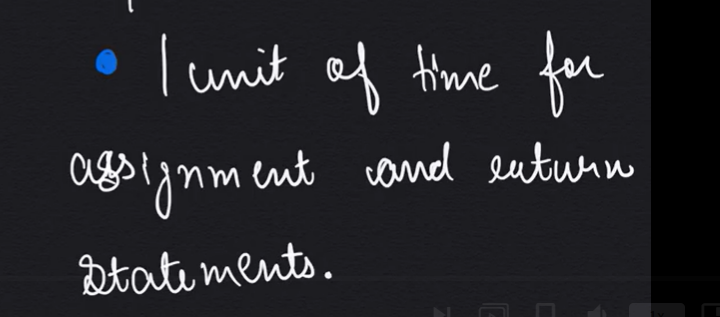




**Input** is the important thing for us.

## Make model machine?



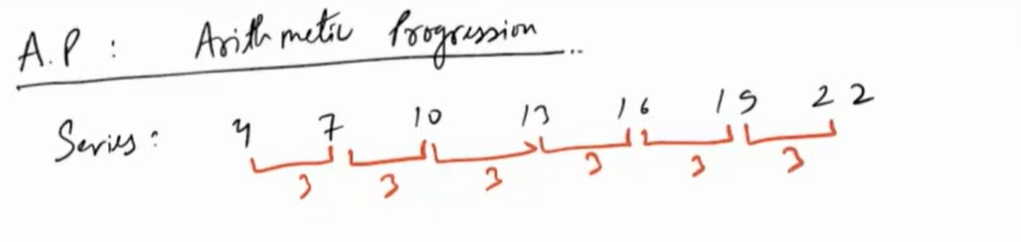


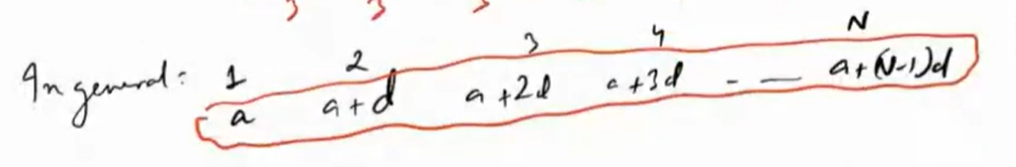
## Arithmetic progression

## Arithmetic progression?

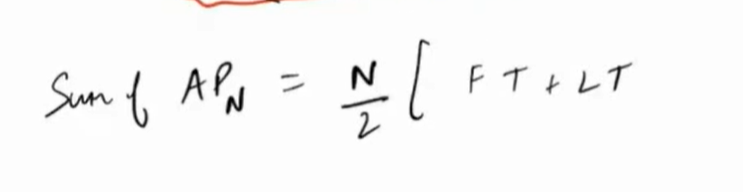
It is a series.

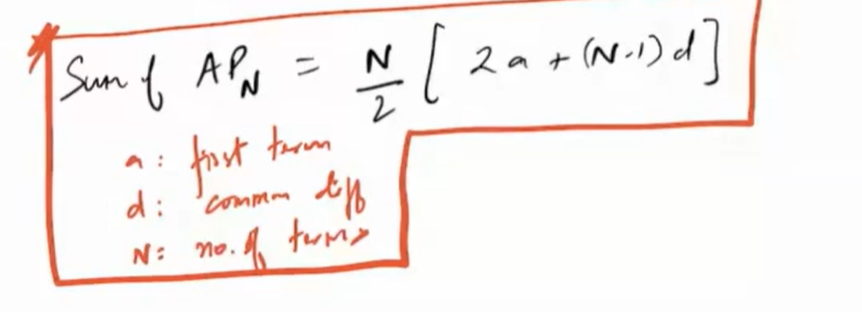
Common difference between adjacent elements remains same.

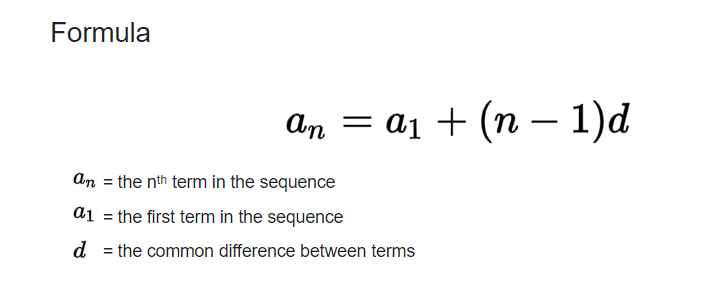




Sum of first N terms is (FT: first term, LT: last term)



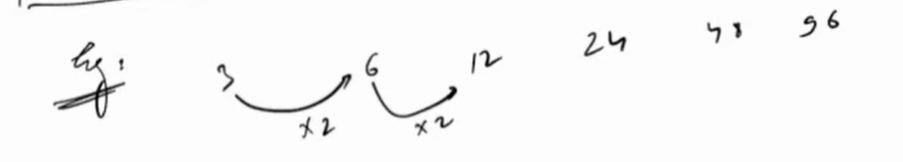


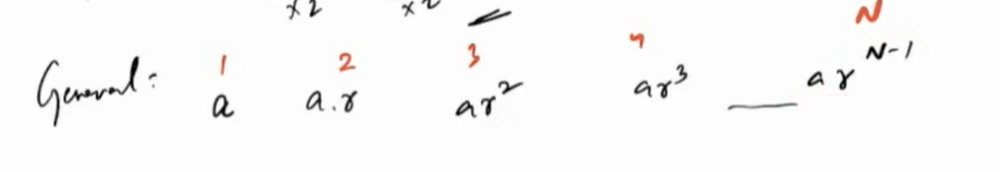


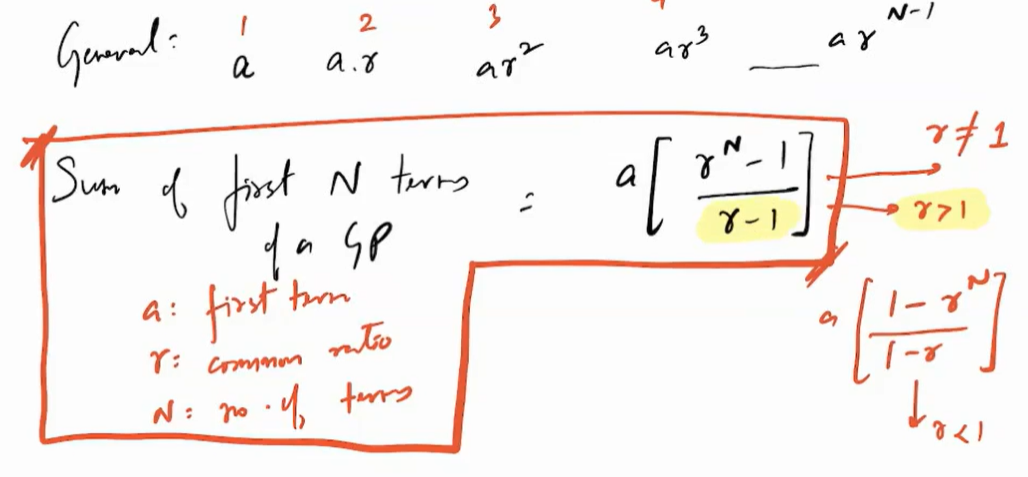
## Geometric Progression?

It is a series.

Common ratio between adjacent elements remains same.







# Assignments