Base 2 Review

Log N means what do you raise 2 by in order to get N

2^2 = 4 log 4 = 2

2^3 = 8 log 8 = 3

2^4 = 16 log 16 = 4

2^5 = 32 log 32 = 5

2^6 = 64 log 64 = 6

2^10 = 1024 log 1024 = 10

So what is log 128??

What is log 256??

Summation Review

Sum of I as I varies from 1 to N = 1 + 2 + 3 + …. + N = N(N+1)/2

Sum of I as I varies from 1 to N-1 = 1 + 2 + 3 + …. + N-1 = (N-1)N/2

Thus,

Sum of I as I varies from 1 to 10 = 10*11/2

Sum of I as it varies from 0 to 10 = same as above

Sum of I as it varies from 1 to 9 = 9*10/2