

write a recursive algo to sum A[1.-n] Sum (A[i-j])

if i=j
return A[i]

else return A[i] + Sum (A[i+1--j]) $A[i--i] = \begin{cases} A[i] & \text{if } i=j \\ A[i] & \text{sum}(A[i+1--i]) \end{cases}$ T(n) = T(n-1) + dThis is a const of $= \left[T (n-2) + d \right] + d$ = T (n-2) + 2d= T(n-3) + 3 d (n-(n-1)) + (n-1) &

 $= \begin{array}{c} k + (n-1) d \end{array}$

 $\mathcal{T}(\mathcal{N})$

K+ (n-1) &

 $\frac{k}{n}$

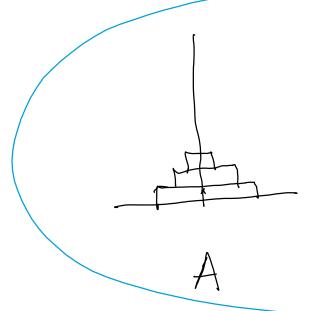
 $=\frac{k}{n}+\frac{\pi d}{x}-$

 $\frac{k}{n} - \frac{d}{n} + d$

a context c=ktd

C = ktd $\sum_{n=1}^{k} \frac{d}{n} + \frac{d}{n} = \frac{1}{2} \frac{d}{n} = \frac{1}{2}$

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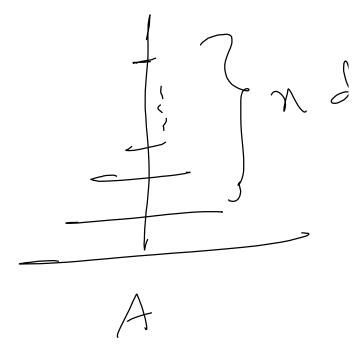
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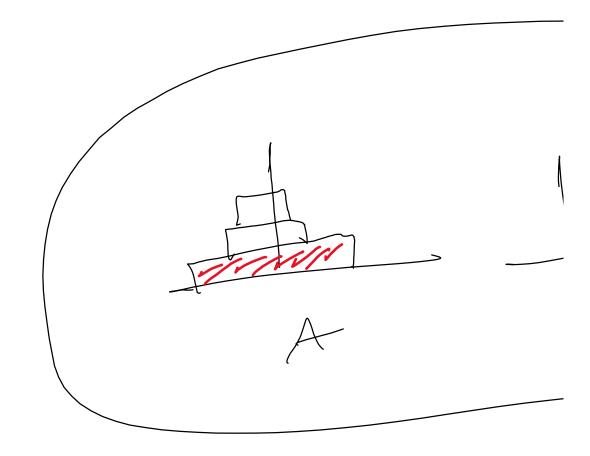
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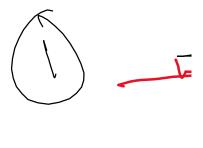
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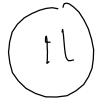
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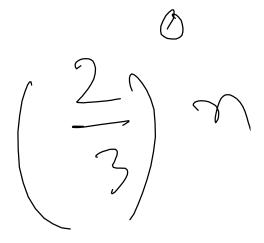
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