Lecture 13 (Divide & Conquer Algorithms)
Tuesday, October 6, 2020 5:00 PM

Reminder: * Exam 1 is this Thursday

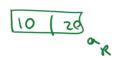
**Stort HW5



@ divide a to 2 sub enray

Pivot = M (5, 8, 20) = 3

<u>5</u>2143



a=[0,5,7,1,2,3,10,20,6]

L=0, R=a.lengh) While L <= R

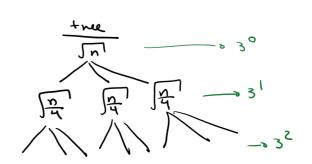
Keep decreasing

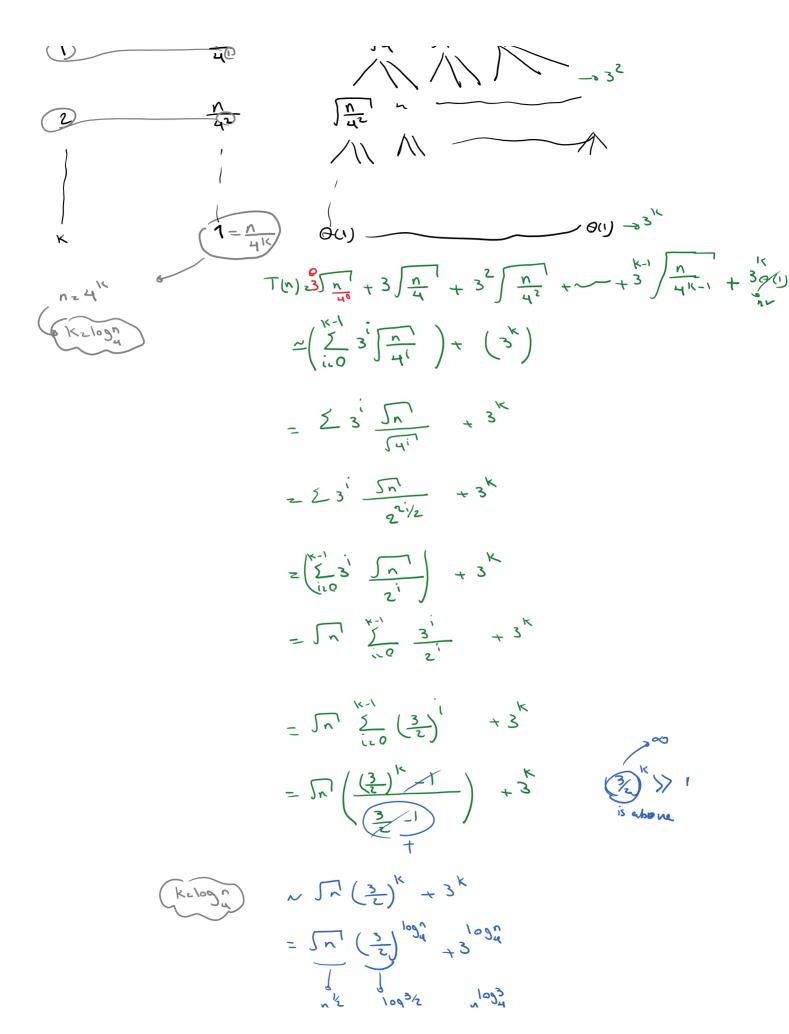
Example

The 23 The sub grahlens

time to grahlens

divide & combine

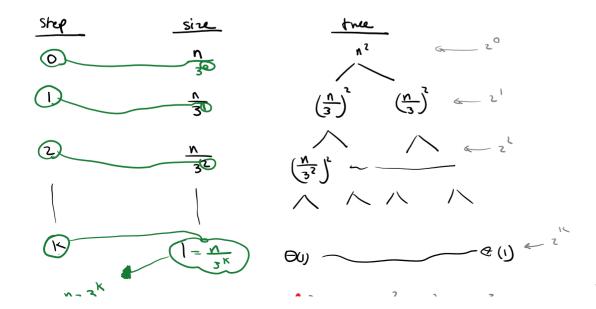


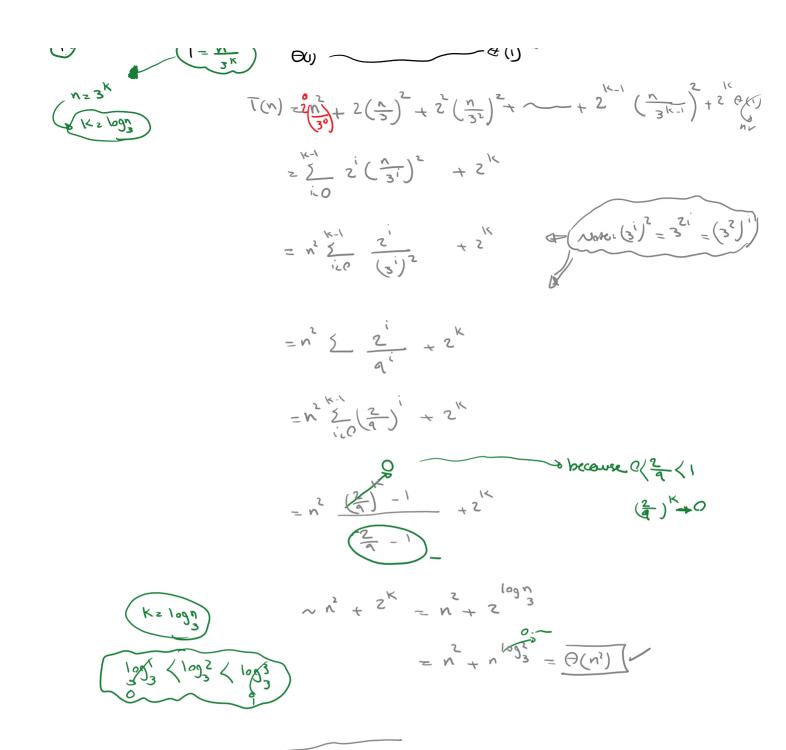


$$= \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \frac{$$

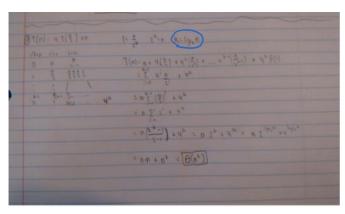
$$T(n) = 2T\left(\frac{n}{3}\right) + n^2$$

2 T(n) 2 T(n) + n2





Matthew's answer



Mostlew is ans :D

