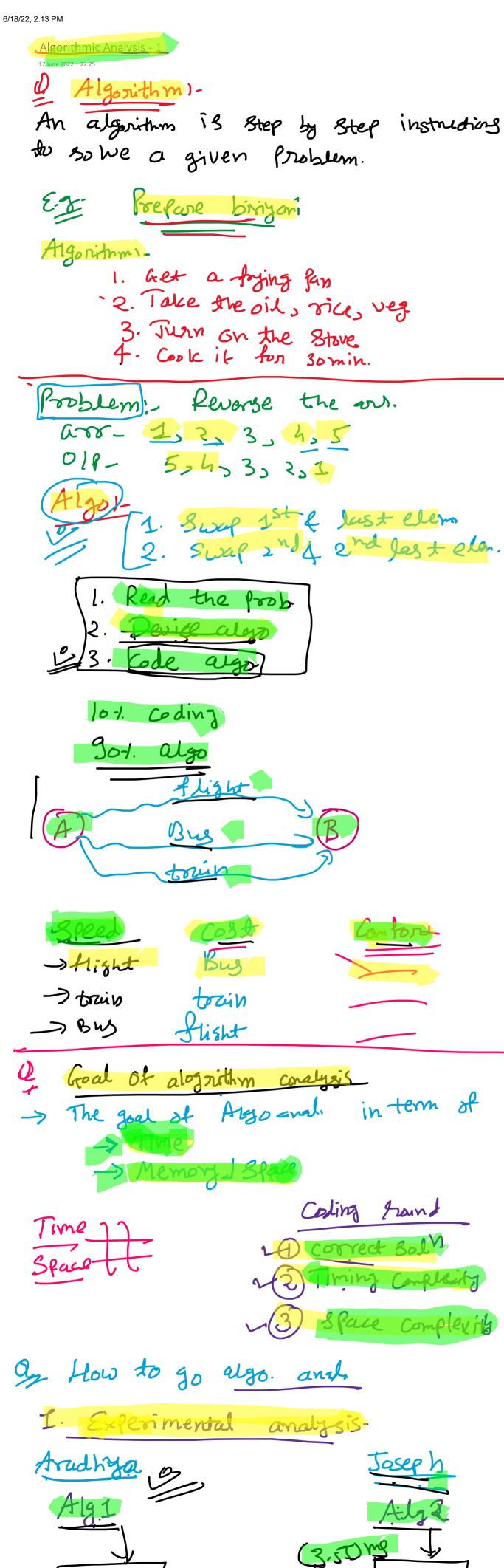
OneNote



C3mg)

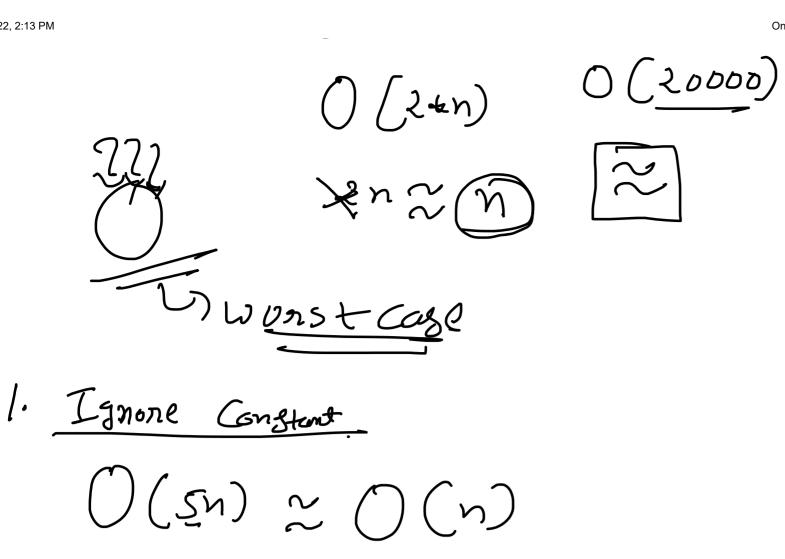
6/18/22, 2:13 PM OneNote 019 Disadvantages: Aradhja > 1696 Sam Joseph > high run Sol > Machine dependent 2. Asymptotic analysis 1 => not vely on madine -> compare alogrithms based on the input rate of growth. Soseph Algol 3mg Compare two vares it (5000) 1=> 5 comp. Sters 1. Best case- always on fine 2. Avg- aug time taken 1-18 3- worst-extreme delay 5+(15*20)

 $\sum_{n \in S} \left[x = 5 + \left(\frac{1}{15} \times 20 \right) \right]$ $\begin{cases} x = 5 + \left(\frac{1}{15} \times 20 \right) \\ 2 + 300 \\ 3 + 300 \end{cases}$ $\begin{cases} x = 301 \\ 3 + 300 \end{cases}$ $\begin{cases} x = 301 \\ 3 + 300 \end{cases}$ $\begin{cases} x = 301 \\ 3 + 300 \end{cases}$

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I refresent big-oh norwo 0(3)(1)(4)(1) V (1) Twonst case 8 Stels N=8 7 - 5

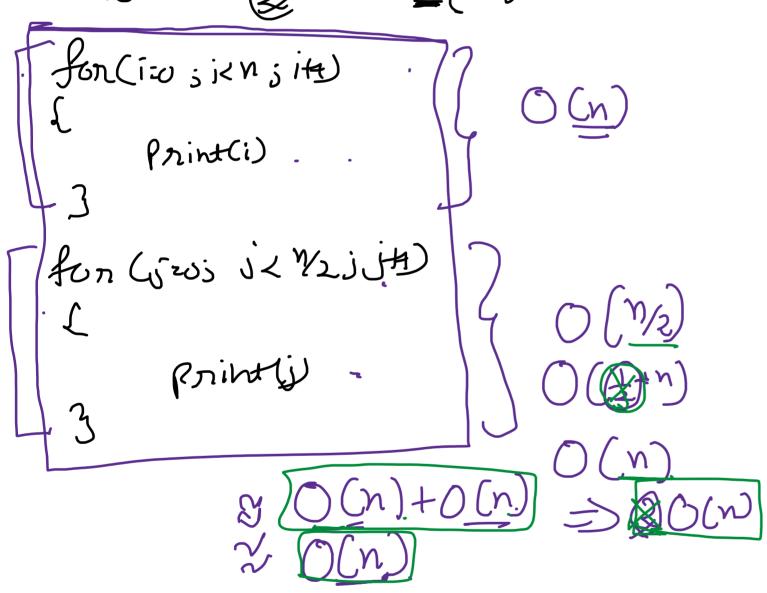
n=5



Why? Beause When n becomes to larges 5 does not matter

n= 10,00,000 } (3.12 mg) } } 3n = 50,00,000 } (3.19 mg)

 $\frac{1}{2}n \times \frac{3}{2}(n) \approx 0(n)$

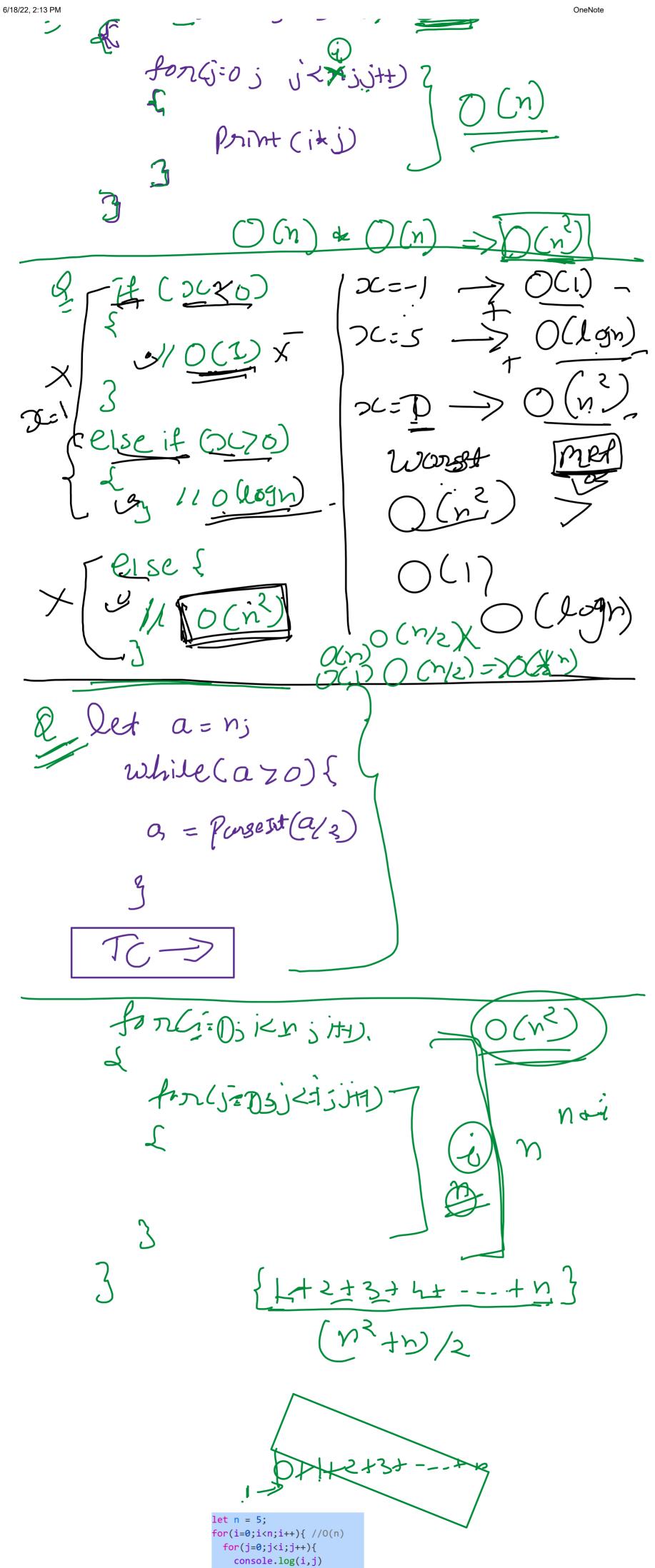


7: 5+(15420) -> O(1) fon (i=o; i < n; i+t)

0(n!)

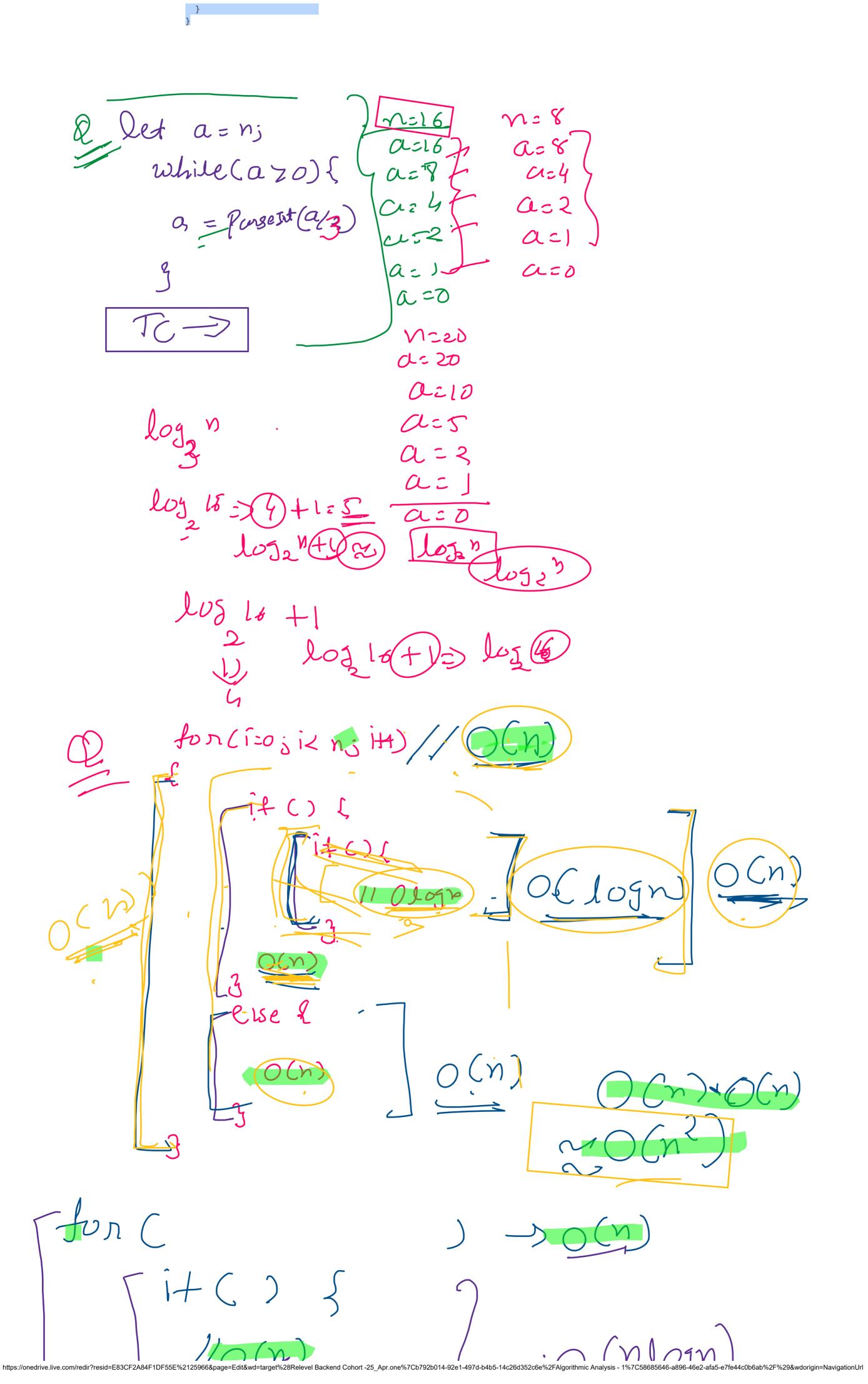
torcizos iznsitt) //

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OneNote



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6/18/22, 2:13 PM Élse s Reliance * Notations: S.1. Big-O notation 1. Big-Oh notation you tight upper bound of algo-= O (gcn) g(n) Cacn) 1%7C58685646-a896-46e2-afa5-e7fe44c0b6ab%2F%29&wdorigin=NavigationUrl

