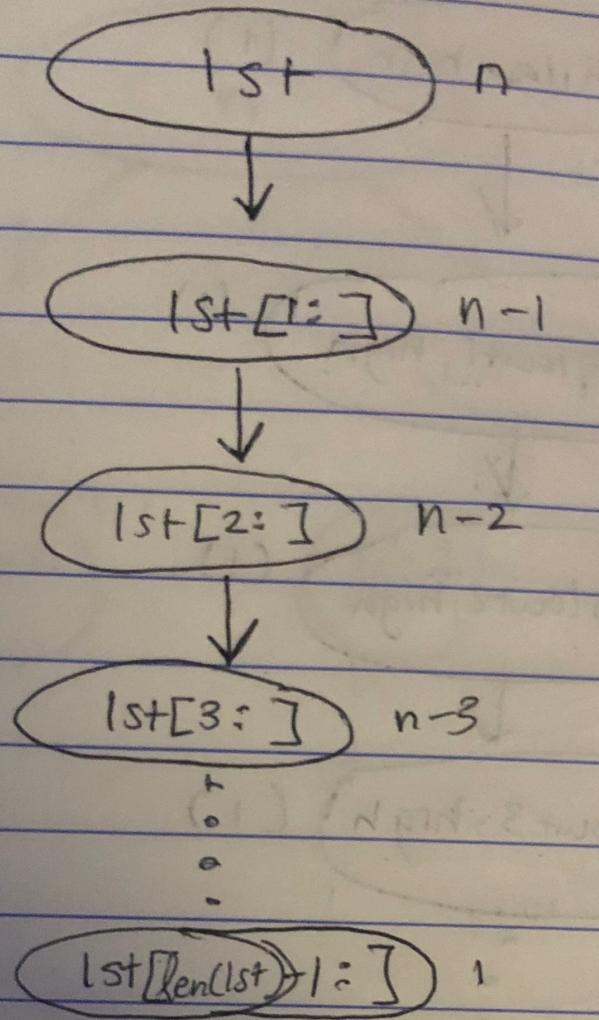
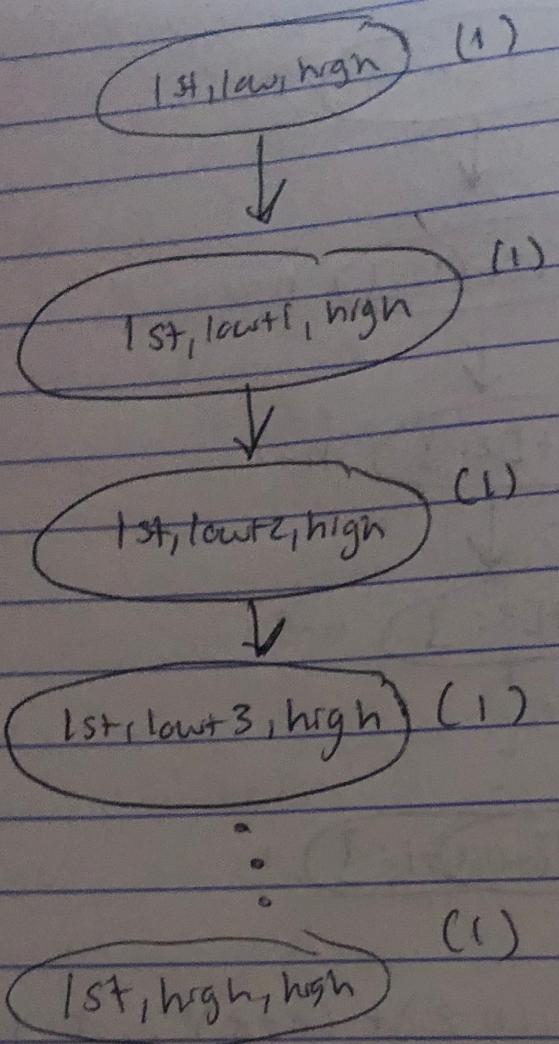


Question 1



$$T(n) = n + (n-1) + (n-2) + (n-3) + \dots + 1 = \frac{n(n+1)}{2}$$

$$= \Theta(n^2)$$



$$T(n) = 1 + \underbrace{1 + 1 + 1 + \dots + 1}_{n \text{ times}} = n = \Theta(n)$$

~~Sum-1st 2~~ Sum-1st 2 is asymptotically faster.