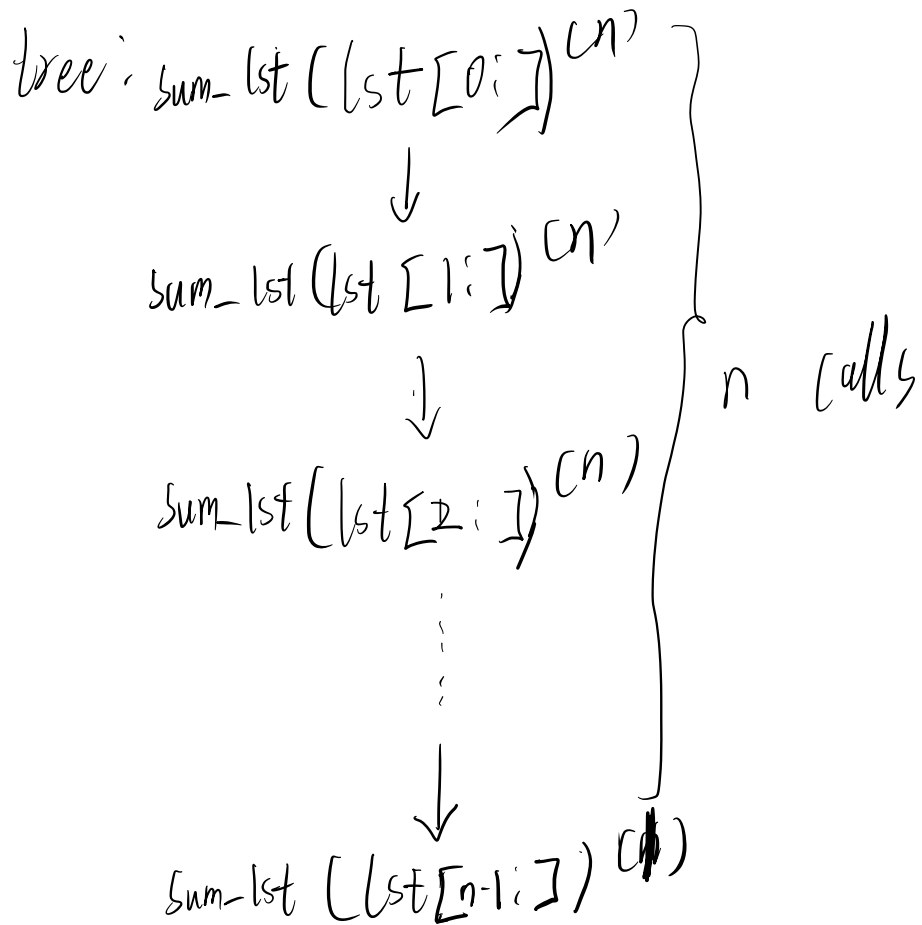


Q1.

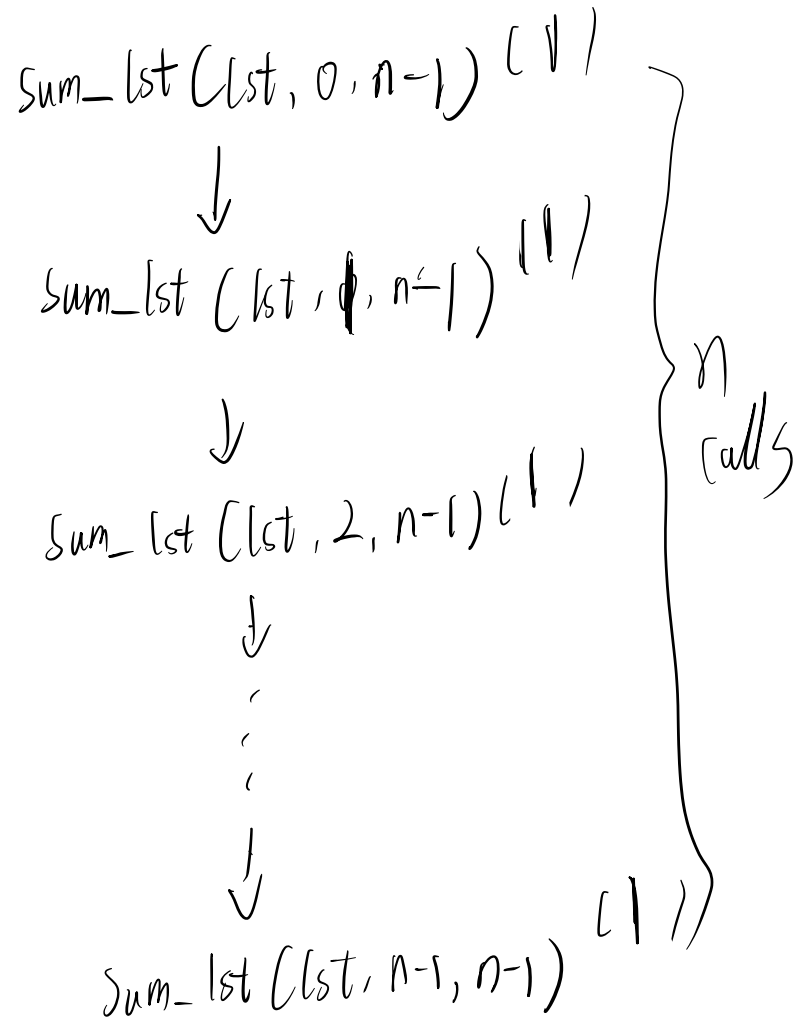


running time:

$$n = n + (n-1) + (n-2) + \dots + 1$$

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

free



Run time:

$$n = 4 + 4 + 4 + 4 + \dots + 4$$
$$= \Theta(n)$$

the second is faster