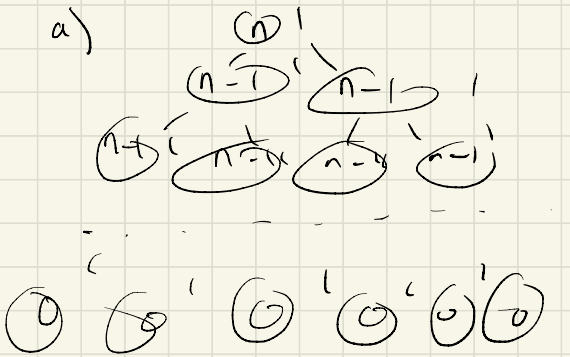
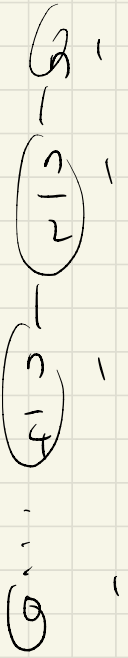
(2)

a)




$$1+2+4+6+8+\ldots+2^n = \Theta(2^n)$$

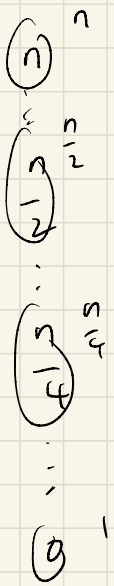
b)




$$1+1+1+\ldots+1 = 1 \cdot \log n$$

$$= \Theta(\log n)$$

c)




$1+1+2+4+\ldots+n+\log n = \Theta(n)$