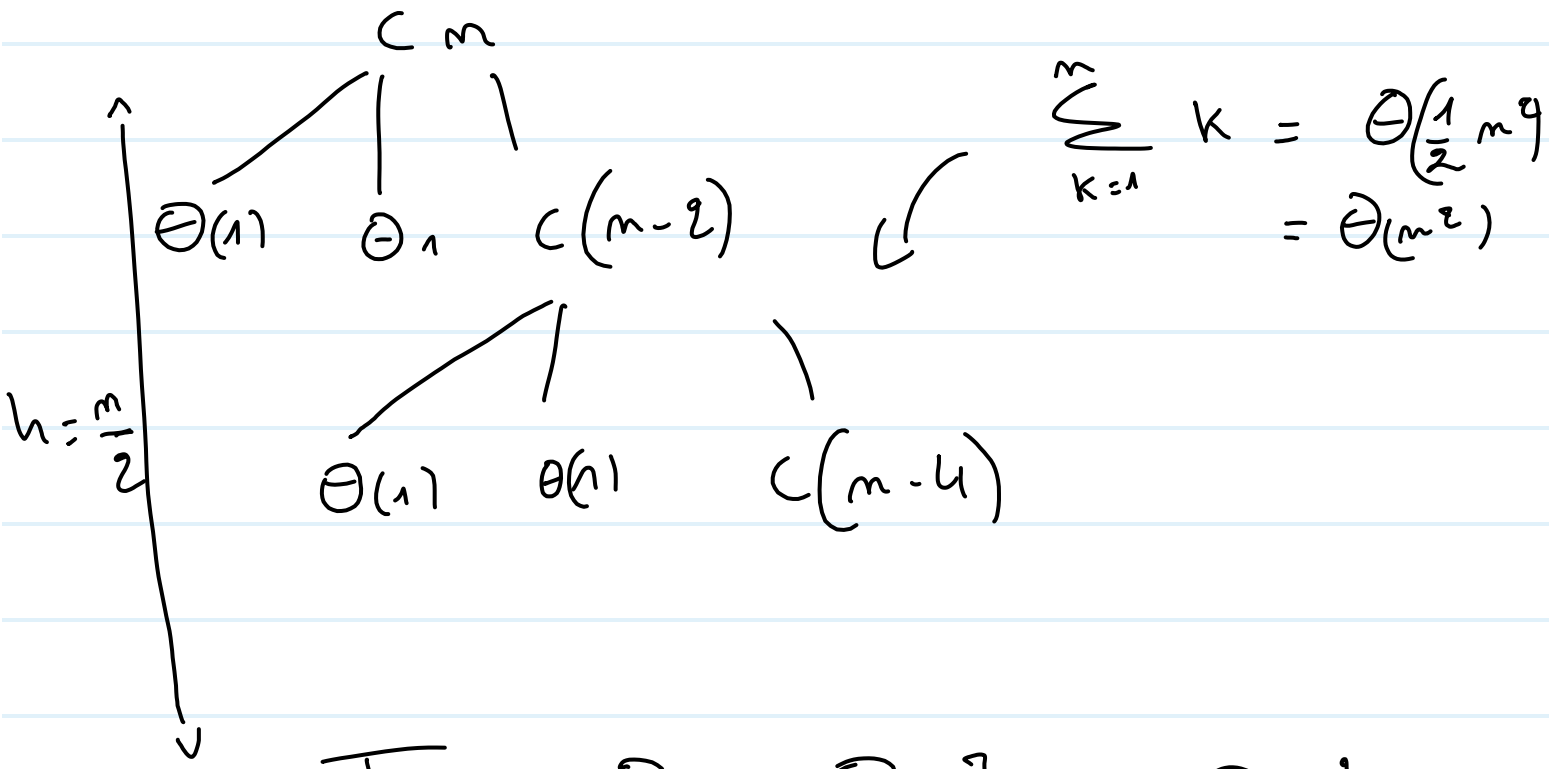
ADS week 7

P2. b. worst case:

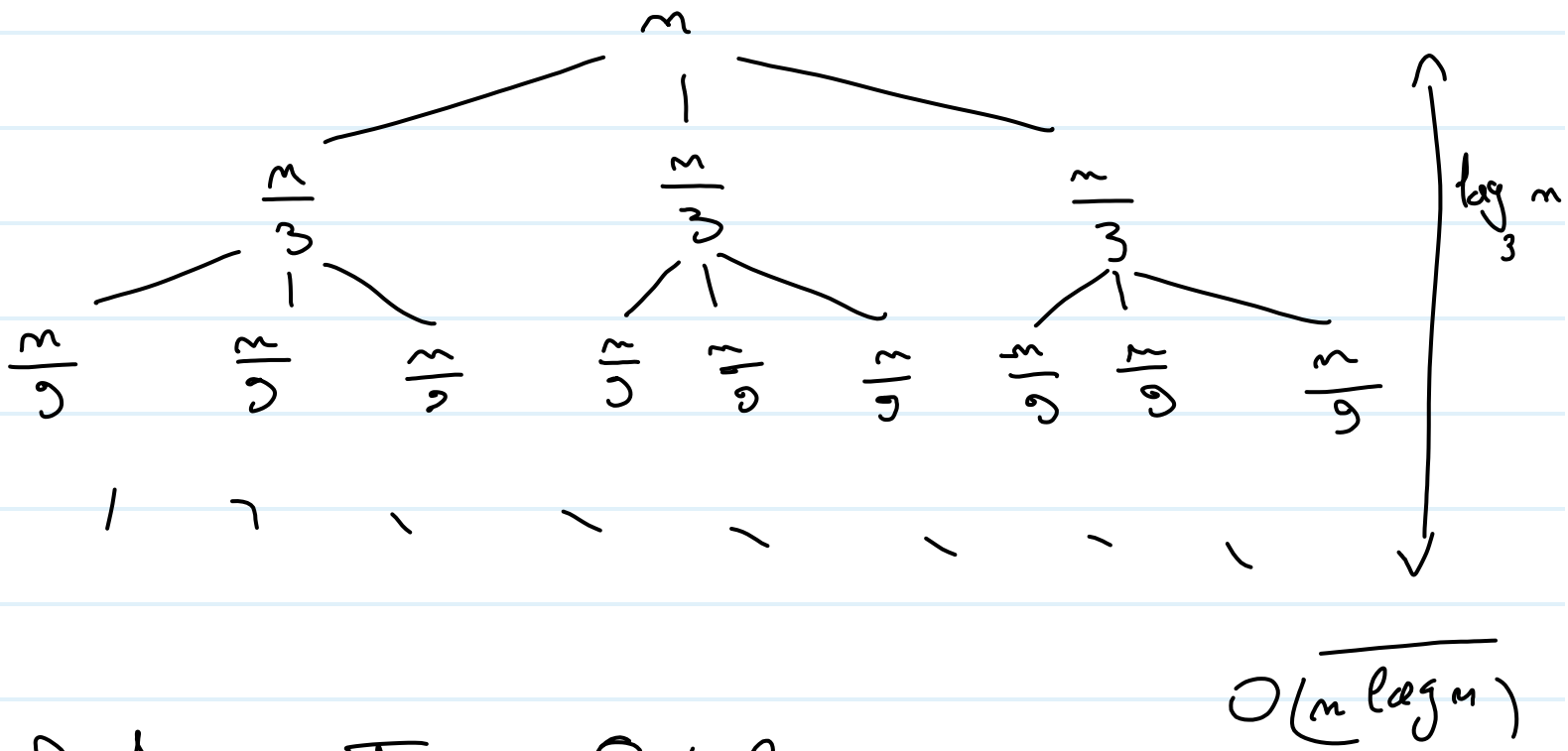
$$T(n) = T(0) + T(1) + T(n-2) + cn$$



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

Best case:

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



$O(n \log n)$

Best case $T(n) = \Theta(n \log n)$