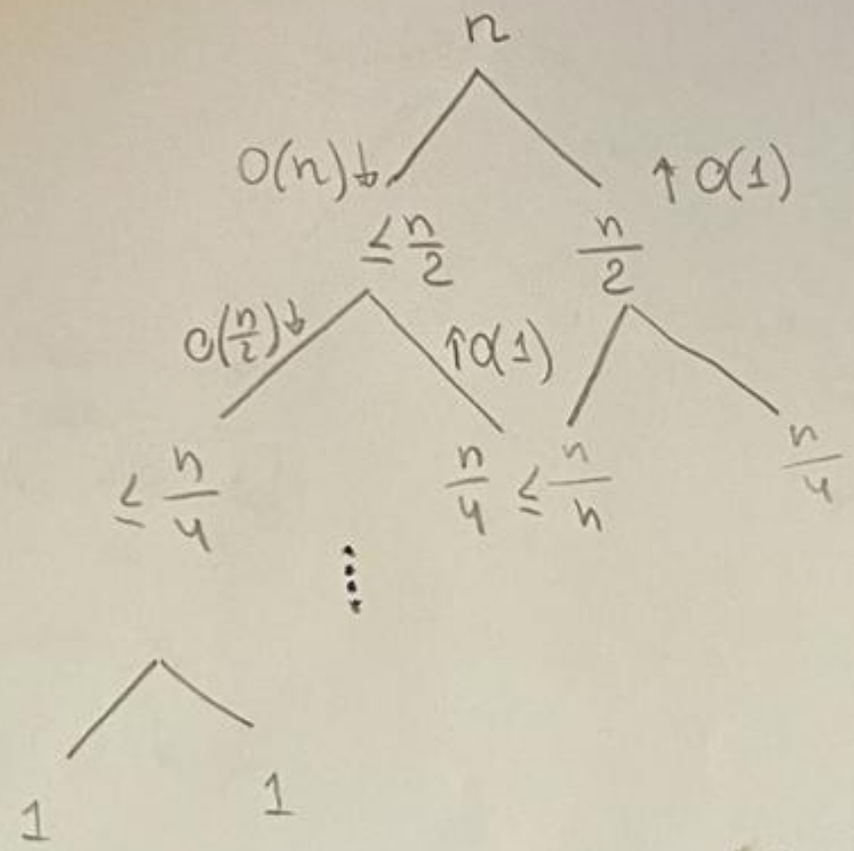


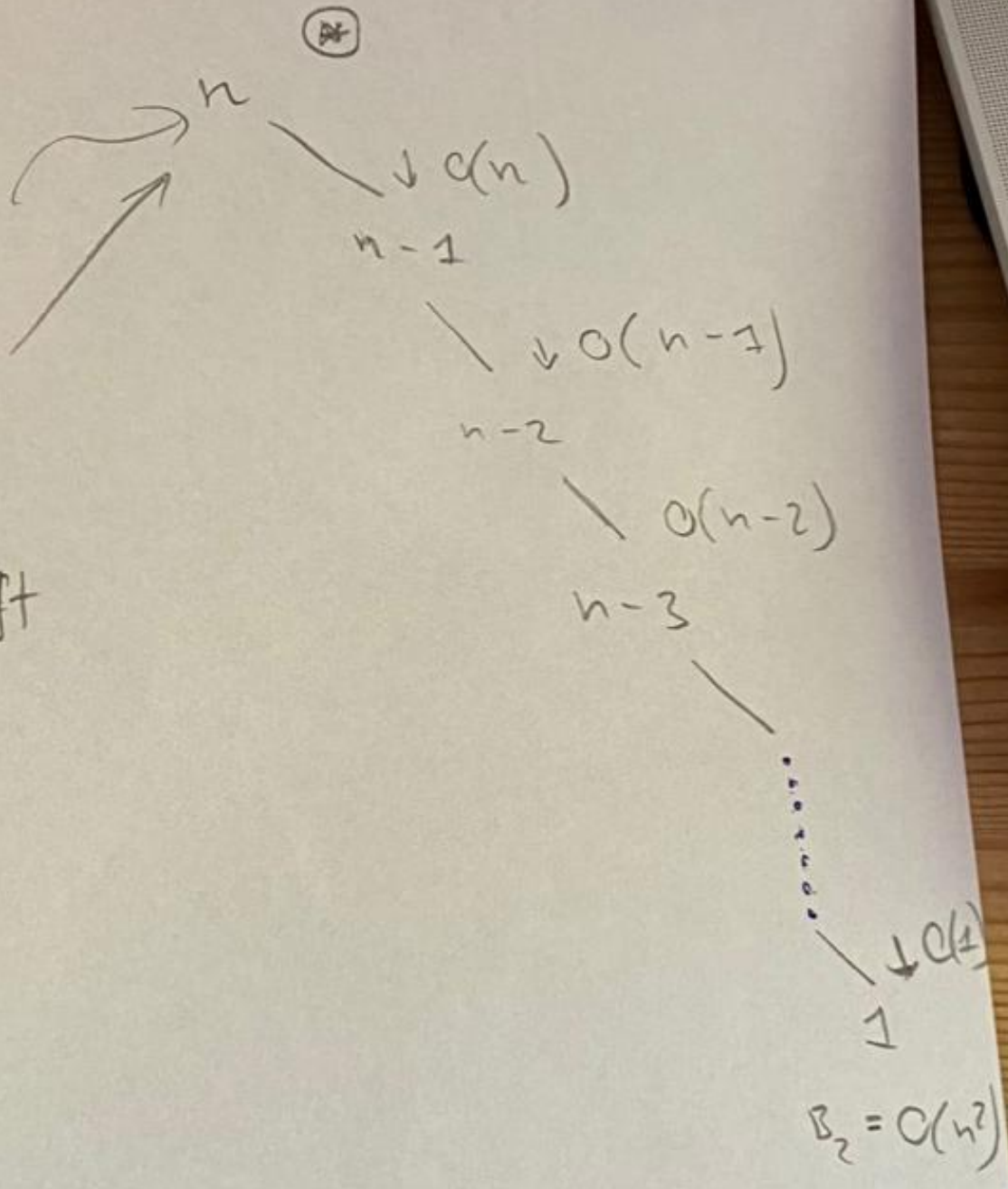
Here is the Duration $O(n \log n) =$

$$O(n) + 2 \cdot O\left(\frac{n}{2}\right) + 4 \cdot O\left(\frac{n}{4}\right) + \dots +$$

$$+ n \cdot O(1) + \underbrace{O(n)}_{\text{leaves}}$$

This is a ideal case.
But it can be unfavorble to the task.

⇒ ④



There is no call because left von a is nothing

$\Rightarrow B_1 = \emptyset$

$B_2 = O(n^2)$