

$$S = 3 \quad \forall (n) = \left(\frac{1}{T \binom{n}{2}} + T\binom{n}{2} + 1 \right)$$

$$T(n) = 2 \quad \forall \left(\frac{n}{2} \right) + 1$$

$$N = \frac{n}{2}; \quad T\binom{n}{2} = 2T\binom{n}{2} + 1$$

$$T(n) = 2 \left(\frac{n}{2} \right) + 2 + 1 \quad n = \frac{n}{2} = 1 \quad T\binom{n}{2} = 2T \left(\frac{n}{2^{2}} \right) + 1$$

$$= 2^{2} \quad T\left(2T\binom{n}{2^{2}} + 2 + 1 \right) + 1 = 2^{3} \quad T\left(2T\binom{n}{2^{2}} + 1 \right) + 2 + 1$$

$$= 2^{3} \quad T\left(2T\binom{n}{2^{2}} + 1 \right) + 2^{2} + 2 + 1$$

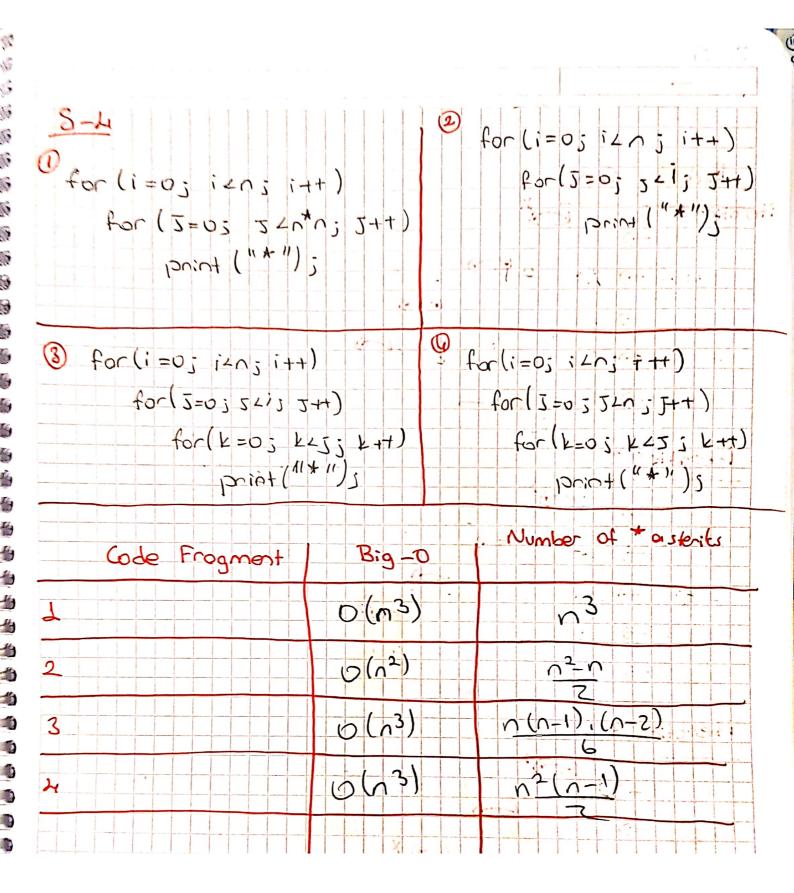
$$= 2^{3} \quad T\left(2T\binom{n}{2^{2}} + 1 \right) + 2^{2} + 2 + 1$$

$$= 2^{3} \quad T\left(2T\binom{n}{2^{2}} + 1 \right) + 2^{3} + 2^{2} + 2 + 1$$

$$= 2^{4} \quad T\binom{n}{2^{4}} + 2^{3} + 2^{3} + 2^{2} + 2 + 1$$

$$= 2^{5} \quad T\binom{n}{2^{5}} + 2^{4} + 2^{3} + 2^{2} + 2 + 1$$

$$= 2^{5} \quad T\binom{n}{2^{5}} + 2^{5} + 2^{4} + 2^{3} + 2^{4} + 2^{$$



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