Estructuras de datos 2024-06-11

Matrices esparcidas

Buerros duas!

$$T(N) = T(asig) + T(for_{x}) + T(ret) = 2t + T(in_{x}) + V_{x}(T(cond_{x}) + T(cone_{x}p_{x}) + T(for_{y}) + T(for_{y}) + T(asig))$$

$$= 2t + t + V_{x}(2t + T(asig) + T(for_{y}) + T(asig))$$

$$= 3t + V_{x}(4t + T(in_{y}) + V_{y}(T(cond_{y}) + T(cone_{x}p_{y}) + T(fin_{y})))$$

$$= 3t + V_{x}(5t + V_{y}(2t)) = 3t + 5v_{x}t + 3v_{x}v_{y}t$$

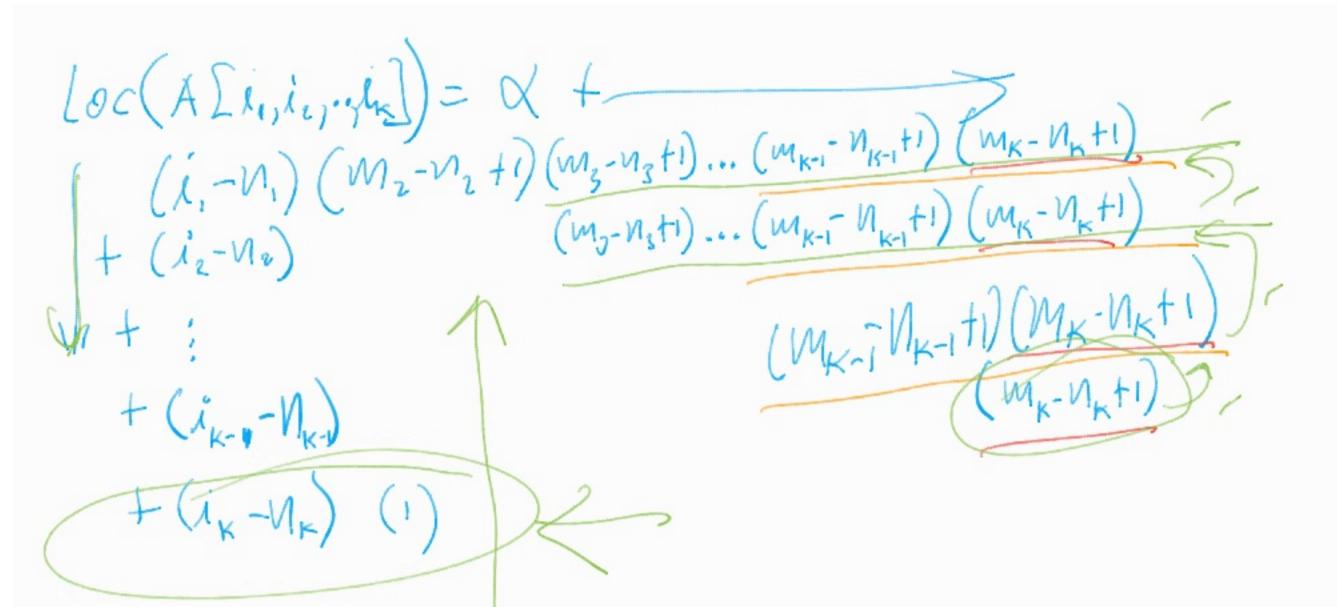
$$V_{x} = ? = K$$

$$V_{y} = ? = K - 1$$

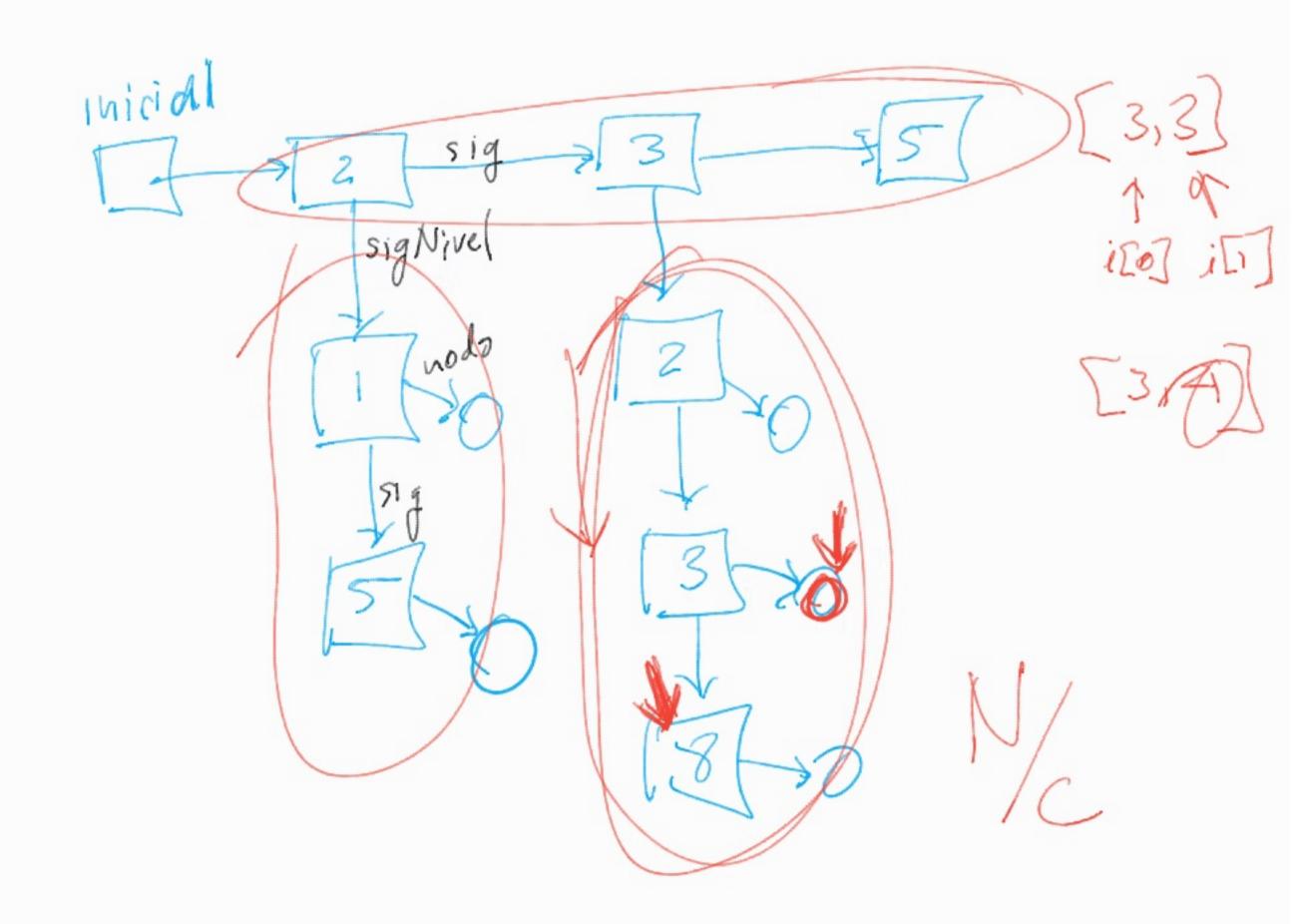
$$= 3t + 5Kt + 3K(K - 1)t = 3t + 5Kt + 3k^{2} - 3kt$$

$$T(N) = 3 + 2K + 3k^{2}$$

$$\Rightarrow O(N) = O(3 + 2K + 3k^{2})$$
\*\*R. summa
$$= \max(O(3), O(2k), O(3k^{2}) = O(3k^{2})$$
\*\*R. constantes
$$O(N) = K$$
\*\*Constantes
$$O(N) = K$$



T(N) = T(asig) + T(asig) + T(forx) + T(ret)  $= 3t + T(inix) + V_X (T(condx) + T(conerpox) + T(finx))$   $= 4t + V_X (2t + T(asig) + T(asig)) = 4t + V_X + t$ =) T(N) = 4++ (K-1)++=3+++k+-4+=4K 0(4K)=K/



1..1 \$ [..100]