



Estructuras de Datos

ESTRUCTURAS LÍNEALES A-2.2 - Matrices esparcidas

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$$T(n) = T(if) + T(asig1) + T(asig2) + T(while) + T(reemplazar)$$

$$T(n) = T(cond) + T(throw) + 2t + T(while) + T(reemplazar)$$

$$= 4t + T(while) + T(reemplazar)$$

$$= 4t + V(t(condw) + T(cuerpow)) + T_2$$

$$4t + V(2t + T_2) + T_2$$

$$T_2 = T(asig1) + T(asig2) + T(while) + T(if1) + T(if2)$$

$$T_2 = 2t + V_2(T(cond3) + 2t) + T(cond_1) + T(cond_2) + T_3 + t + T_4$$

$$T_2 = 5t + V_2(T(cond3) + 2t) + T_3 + T_4 = 5t + V_2(3t) + T_3 + T_4$$

$$T_3 = T(if_1) + T(if_2) + T(if_3) + T(if_4) + T(delete)$$
 $T(if_1) = T(cond_1) + T(asign1) + T(else) = 2t + t = 3t$
 $T(if_2) = T(cond_2) + T(asig2) = 2t$
 $T(if_1) = T(if_3) y T(if_2) = T(if_4)$
 $T_2 = 11t$

$$T_4 = T(asig1) + T(if_1) + T(if_2)$$

$$T_4 = t + T(cond1) + T(asig1) + T(asig2) + T(cond2) + T(asig_3)$$

$$= 6t$$

$$T(n) = 4t + V(2t + T_2) + 5t + V_2(3t) + 11t + 6t = 26t + V(5t + V_2(3t) + 17t)$$

$$v_2 = N \ v = N$$

$$4t + n(2t + T_2) + 5t + V_2(3t) + 11t + 6t = 26t + n(27t)$$

$$O(T(n)) = \max(26, 27n) = n$$

$$O(T(n)) = n$$