A.  $T(n) = \begin{cases} x & f \\ \sum_{i=1}^{n-1} T(i) \end{cases}$ , although f(n) apeleara f(n) (cicla infinit) (presupent co for merge down jana la n-1) T(0) = 1 T(1) = 1 T(2)=2/ T(3) = 9 T141 -8 robservanca T(n)=2" H n > 1 (puten demostra prin industre) ) ce do timp vor li egali cu B(2") 2 (Constanta)

val de dispersi l'antique de l'antique de dispersi l'antique de l'an 18 resilicara linara introduce elementele mardine. C. B Contra exemple: le arborele 2 (2) Adaugan 18 3,4: E. 3.9 Adaugan pe 4,3: 2.10.2 < 5.2 1:5 2 n2 < 2 1 Jestan: n=1=12 < 1 n=6-7 72 < 32 2=2=18<2 n=7 => 98 < 69 N=8 -> 128 < 128 -> cept 2=3=)18<4. n = 4=>32 <8 7-9 =7 162 <256 ->(0) m=5=750<16

D. Insordine -> se ravourge Subarboro storg, Radacino, Subarboro dept Complexitate: O(n) rad: 1 Nad, Indaina arborelus Nod: e: TElement, informatia utili J: 1 Mod, nodal stang dr: Thoo, radul drept sabalgaritm entia, e, nr) bebord: as arbore linar e: TElement, elemental countait Post bood no: Intreg, indicale clementalis in inordine @ arma exceptie daca m evisto elemente villaro ( st) { brelaro o stivo } ortea rad wico; one Fals cat time 7 vide (st) Vort # NIL executa cat time out + NIL execution adaugo (st, crt) crt=[crt].st starred catting stergel st, crt) Daca [ort ]. C= e atunci mreant one Adevarat STOP sparsit daca ort- [ort]. dr (an varcurs toata vartea stango) clarisit cat ting; Doca On tals almei; QN existo; claristolece; clarist sulaly