PERA Recorsion Whent is recempoison -) Example of recersives -> Tracing recorded -) Stack Uzz in Recordion - Time complexity -) Recurrence Relation for (paran) & if (< have condition)} 2 Ru (perein); reconstantiala bothness itun for (mt 1) 3 if (uso) { Cost (CA Kend); 2. (n-1) 40.11 noun () } M+ X=3;

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(n tai) 3 cout Lancerd1; mount 1 0/p - 1.2.3 basit but druek calley prese worthand in phere 1-odoge Torle 1- lambaji aq 2- lambayi acq 2- and sterle year ontager lamba aculmer sirce) lanba culve, sveist 1-22-33 010-1->2--37 3-2-1 olar

PERA Kun (M+ n) } oriendinge soudace 12(20) 3 Decordinge hende Jexerdinge schripter Ascerding 1. calling: 2. fun(n-1) +2 Denden girivide Descending 3. Leturning; you as-du 16(20) } (nt n) } voté fullantas 14(420) { contain; contencent (1-1 pat Qual (1-1) Costcon; macter 13 Vo. 2 main (feri SiEL-1 Int 1=3 le. funz (x) int x=1. £2() ton((x) A2(1 Lon 205 HE) Main main fun(l Rail code ma.y mail ton10 0/10 (n)0-1+N. 1-2-3

Lecorrence felation- Time Void har (Int n) } 16 (420) } Contache enly void hullut 1/2 had bere down it (12015) T(1) alson 2 Aur 11-11; >7(n-1) T(n) = T(n-1) + 2T(n)=T(n-1)m T (n)= / T (n-1)+2 n>0 T(n)= +(0)+n T(n)= 1+ n 1 start 1 -0(n) = t(v)= t(v-1)+1 T(n) = T(n-1) + 1T(n-1) = T(n-2) + 1T(n) = T(n-2) + 1 + 1 T(n) = T(n-2) + 2 - 15 igleT(n) = t(n-E)+}

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