Student Name: Gölegy Gillsoy 5+dea No; 270201072 a) T(n)= +T(n|2) + n3 rearrence for the 91-) b) as the recurrence has the form T(n)= a T(n/b) + F(n), we can use master method to solve this recurrence nlessa, Findens n 10027 = n 21807 F(n) = -2 (n | 20 ba+ E) 95 Ton) = (Cfor) = (n3)

(D2-) Recurrence relation For this algorithm is a) T(n) = T(n-1) + T(n13) + T(n15) + T(n17) + (1) 6) recursion tree for this recurrence is as Follows

longer path to leaves eletermines helpth hen shatest path to leaves = leggn

geometric $=\left(\frac{4^{n-1+1}-1}{4-1}\right)=c\left(\frac{4^{n-1}}{3}\right)$ T(n) = 0(40)

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