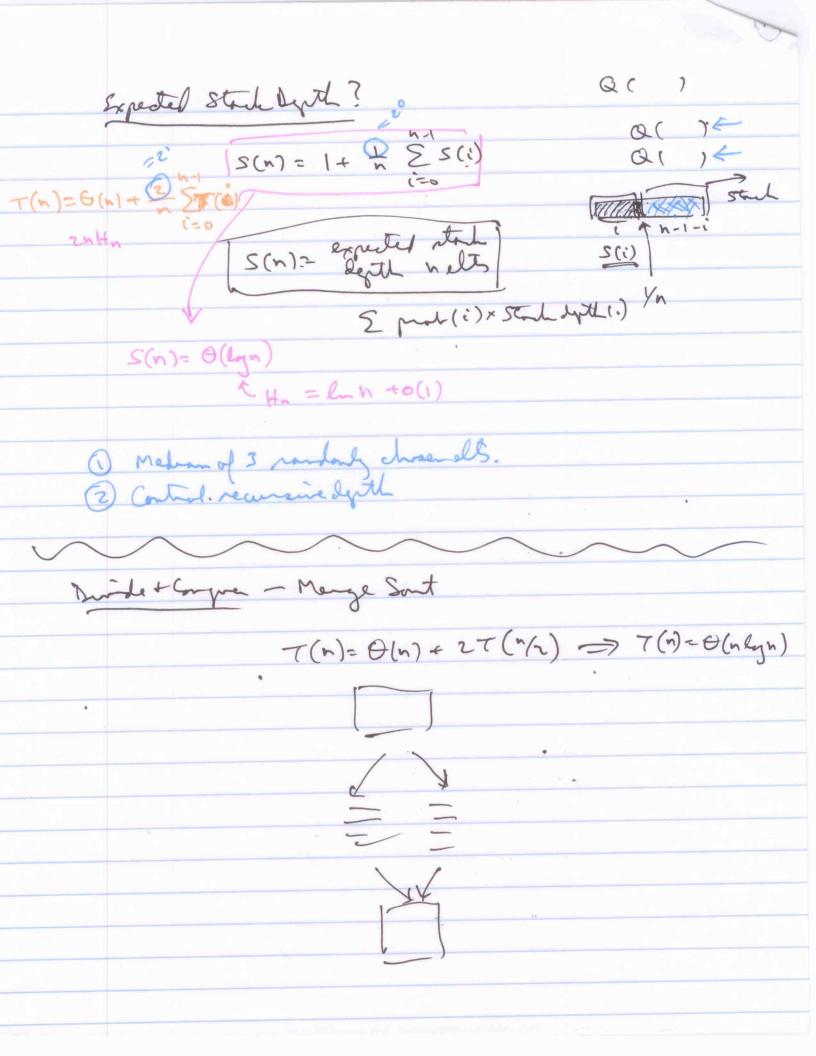
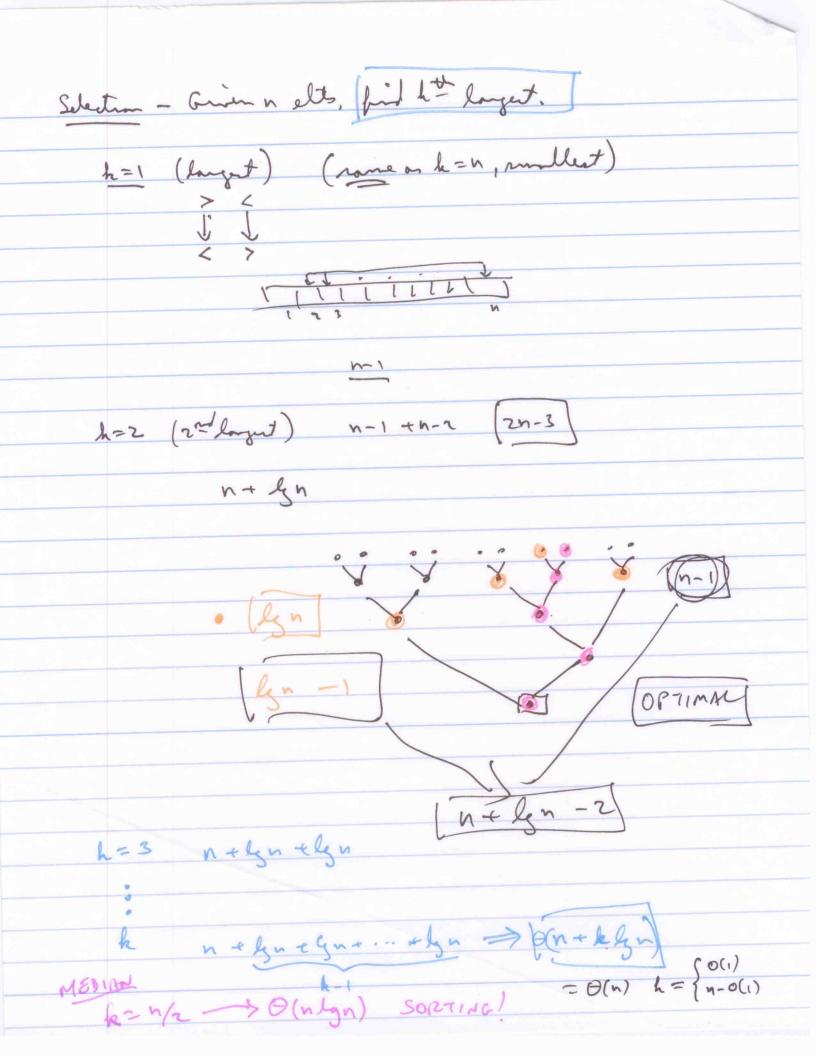
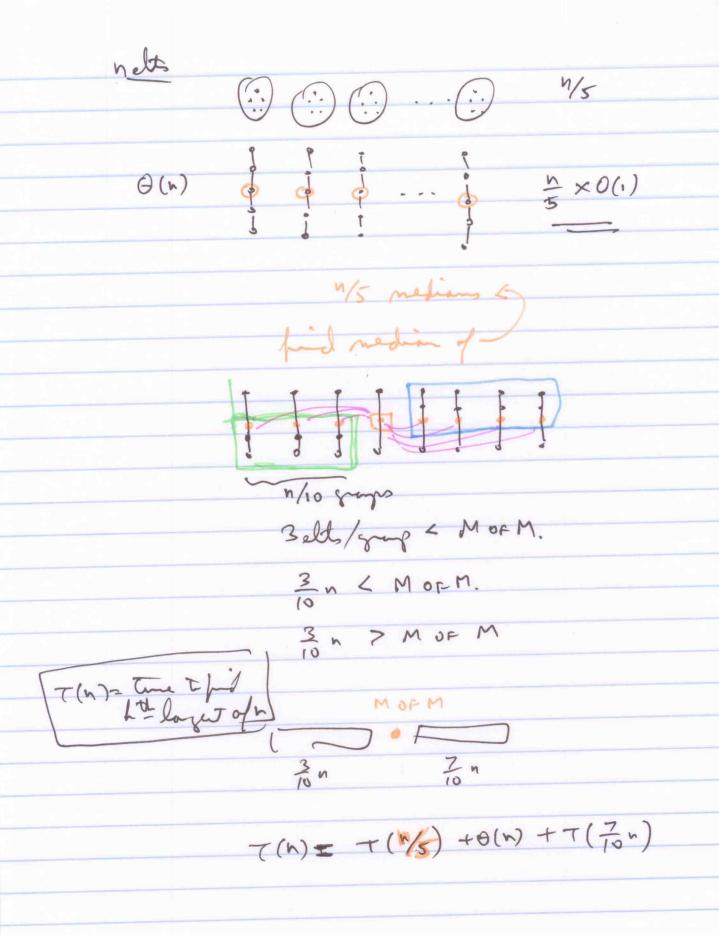
More on Queliant 11/2 E(n)= [1/2] + E([1/2]) + E([1/2]) E(0) =0 E(1) =0 E'(n)= 1/2+2 E'(1/2) (E-2) (E-2) = (E-2) = = Ch=(h2h) = E(n) ≈ E(n) (10/€) E(n)= \$ 3(i) Lo = O (nlyn) D(i) = # of I lets in himany >> E(n)≈ ngn = O(nlgn)





SELECTION IN LINGAR TIME h=1 ok h = 2 OK h=0(1) for DIVIDE & CONQUER h = n-o(1) $T(n) = \Theta(1) + T(n/2)$ $\overline{\left(\Theta(n)\right)} = \overline{\left(\frac{n}{2}\right)}$ 0(4) T(n)= O(n)+7(1/2) $N=2^h \implies t_1 = 2^h + t_{h-1}$ (E-2) (E-1) $\times 2^h + \beta^{2h}$ (7(n) =0(n) Lzi DONE MG c(n)=0(n)+ 1 5 c(i) => c(n)=0(n) BAD



T(n)= T(3)+7(70n)+0(n) caess: 7(n) & Kn for nome K Kn = K3 Kn KX = 9 KX+ CX KEC home K = 10c. Q(n) = O(n) + O(n) + 2Q(n/n) medin pattin Q(n)= O(n) +2 Q(1/2) > Q(n)= O(nlgn)