Day 10 DSA Excersize 1 A= an anz C=AXB azi azz If we go by class: Ex ZxZ e- Basically 2 muH. C11 = a11611 + a12621 C12 a, b, 27 4 a, 2 b 22 - ladd (21 a21 b11 + a2, b2, -> n3 operations C22 a, b, 2+ a, 2 b, 2 W/ Divide and conquer It would be a n/2 x n/2 because making boxes for each value - 2 would be the same (8 mutt., 4 add. T(n)=8T(n/z)+0(n2) 10928 = 3 $n^2 4 n^3$ $T(n) = B(n^3)^4$ Excersize ? even: (xn/2)2 x C need the extra x for all odd: (xn-1/2)2 x C need the extra x for all world be even T(n)=T(n/2)+O(i) Gdividing by log 1 for this = Step = T(n) = O(logn) = Faster than O(1) Excersize 3 23351:46 Jan split into 2 groups (left, right, ul middle) T(n) = 2T(n/2) + O(n)1 we just want A max sum > T(n)=Anlogn