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CS-260 HW1

The following pages are my attempt at problem 1.12. I did look at 1.10 however I was not able to grasp the concept well enough to complete the homework assignments. I also didn't have a solid understanding of 1.12 however I did attempt it based on intuition and the amount I did understand.

Adam Jablonski C5-260 1.12 a) procedure mut mpy (n: integer); Var iji, Ki integer begin for i'= 1 to n do for jiel to a do began C[1,1]] for ki=1 ton 20 CEISIJ: CEISIJ + AEISKJ * BEKSSJ end end (2) Since there are 3 for lops iterating up till n b) procedure my Stert (n: huser) for i:= 1 to n-1 to 3 tre equal because i goes to not and i=it1 goes and jeith goeston for j= i+1 ton do for K:=1 +5 62 E O(1) 3 h + n(2-45)(n-1)

() Procedure very odd (n:intern); 1, 5, x, y: Mase begin for it = 1 to h 20 Assume Asold if odd (1) then segm O(1) = M for 7:1 would $\sum_{j=1}^{n} \sum_{j=1}^{n} = n^{2}$ x; = x+1; for -:=1 to; do y: = v+1 D) It is recursive. function recursive (ni integer): subgeri if a C=1 tun return(1) Tehra (resurrue (a-1) + record (a-1)) end T(0) = (C) = {recusive (n-1) + marsne (n-1)} = 2{...}

= O(2n)