PROBLEM 3

(a) white (i<n) { i=ixi;}

i2 2x <n - K < log (log n) | (log (log n)) | (b) \$\frac{1}{2} \theta(i) + 2\frac{1}{2} \theta(i^2) O(n) + [O(ivn)] (30(Tn3) (313 a constant 10 (Tn3) (c) 15 (2,001)+ 20(2)) worst case if gatement calls $\theta(\frac{n^2}{2}) = \theta(n^2)$ (d) N C (O(1)) 1093 N