Question 4

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D4 Master Theorem
      i) T(n)= 7T (nb)+ n2
From they
       Comparing Thus to the original form of The att (n/b) to (not) we can see that

G=7, b=2 and d=2.
    Fred log = log = 2.80
                  Since log $ > 2
   . The order of computation will be
                 0 (n/0g7)
 (n) = 5T (n/3) + O(n)

Company this to the original form.'

T(n) = aT(n/b) + O(n/a)
          : a=5, b=3, d=1
Firding Log 9
=> Log = 1.464
Since
Log => d
 The order of amputation will be a conformation of log 3
) T(n)= 3T( 1/2)+3/4n+1
       Companing this fo This.

T(r) = CIT (n/b) + O(nd)

we can say that

C(=3, b=2 and d=1)
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