T(n) = 3T(n/4) + cn^2

I=0

I=1

I=2

T(n) = cn^2 + (3/16)\*cn^2 + (3/16)^2 \* cn^2 + …

= cn^2 (1+(3/16)+(3/16)^2+(3/16)^3 ….) <Geometric series> 1/(1-r) where r=3/16

= cn^2 \* (16/13)

= Θ(n^2)