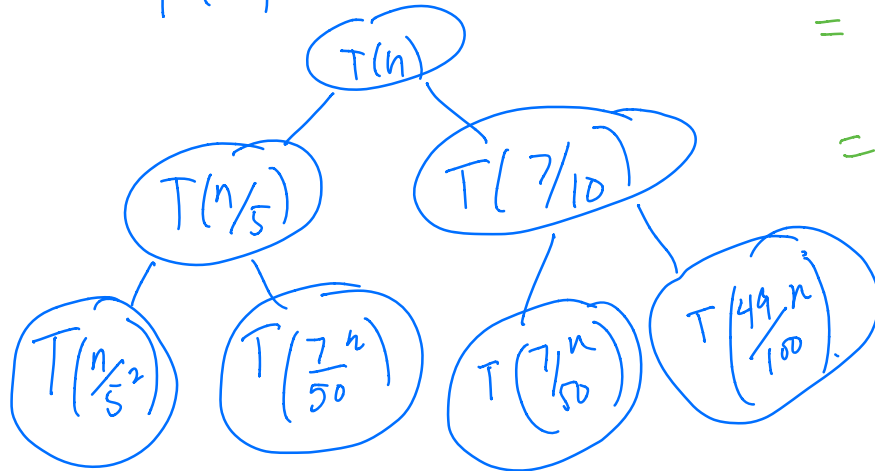


$$T(n) = T(n/5) + T(7/10 n) + n$$



$$= n \quad \frac{7}{10} n \quad \frac{49}{100} n$$

$$= \frac{9}{10} n$$

$$= \frac{4n}{100} + \frac{14n}{100} + \frac{14n}{100} + \frac{49n}{100}$$

$$= \frac{81}{100} n = \frac{9}{10} n$$

$$T(n/5^2) \dots T(n/5^k) \dots T(1)$$

$$\sum_{i=0}^{\log_{10/7} n} \frac{9}{10} n = \Theta(n)$$

geometric w/ $C < 1$
so term shrink