





Recurrence Relation:

T(m):
$$T\left(\frac{m}{2}\right) + T\left(\frac{m}{2}\right) + \infty$$

$$T(m): 2T\left(\frac{m}{2}\right) + \infty$$

$$2T\left(\frac{m}{2}\right): 2^{2}T\left(\frac{m}{4}\right) + \frac{m}{2}\cdot 2$$

$$2^{2}T\left(\frac{m}{4}\right): 2^{2}T\left(\frac{m}{8}\right) + \frac{m}{4}\cdot 2^{2}$$

$$\vdots$$

m25A: M+50 12 5/2 = M 12 5/2 = M

 $2^{\frac{\log n}{2}} + \left(\frac{n}{2^{\log n}}\right) = 1 \cdot 2^{\log n}$

Space?