

$$T(m) = T(\sqrt{m}) + 1$$

$$T(m) = (T(\sqrt{m}) + 1) + 1$$

$$T(m) = ((T(\sqrt[4]{m}) + 1) + 1) + 1$$

$$T(m) = T(\sqrt[4]{m}) + \sum_{j=1}^1 1$$

$$T(m) = T(\cancel{0} \cancel{m} \sqrt[4]{m}) + i$$

$$T(\sqrt{m}) = T(\sqrt{\sqrt{m}}) + 1$$

$$\sqrt{m} = m^{\frac{1}{2}} \quad \sqrt{m^{\frac{1}{2}}} = m^{\frac{1}{4}}$$

$$\frac{1}{m^{\frac{1}{2}}} = 0$$

$$m = 0$$

~~cancel log m~~