$$T(n) = 8T(n/2) + \frac{n^2}{2}$$

$$T(1) = 0$$

$$I = 1$$

$$I(n) = 8^{2}T(n/2) + \frac{1}{2}(\frac{n}{2})^{2}$$

$$I(n) = 8^{3}T(n/2) + \frac{8}{2}(\frac{n}{2})^{2} + \frac{8}{2}(\frac{n}{2})^{2}$$

$$I(n) = 8^{3}T(n/2) + \frac{8}{2}(\frac{n}{2})^{2} + \frac{8}{2}(\frac{n}{2})^{2}$$

$$T(n) = 8^{3}T(n/2) + \frac{8}{2}(\frac{n}{2})^{2}$$

$$T(n) = 8^{3}T($$

(U/0,1°2)= (U3)

6=8 P=5 E(U)= UC

1 og 9 = 1 og 6 = 3