Binary Search

$$T(N) = C + T(N/2)$$

$$T(N) = C + T(N/4)$$
Subtract

$$T(w) = T(w/8) + 3C$$

$$Pattern$$

$$T(w) = T(v/2) + iC$$

$$T\left(\frac{W}{2}\right) = T\left(\frac{1}{2}\right)$$

$$N_{2}^{\circ} = 1 \longrightarrow N = 2^{i}$$

