

$$1+1+2+\sum_{j=0}^{n-1} (1+2+2+5)+1 = k_1 + 16 \sum_{j=0}^{n-1} 1 = k_1 + 16n$$

$$\Rightarrow T(n) \in O(n)$$

$$k_1 = 5$$

$$\Rightarrow T(n) = 16n + 5$$

