$$T(n) = 3T(n/2) + O(n)$$

$$\frac{n_{12}}{n_{14}} = 3 \cdot \frac{n_{2}}{n_{14}}$$

$$= 3 \cdot \frac{n_{2}}{n_{14}}$$

$$= 3 \cdot \frac{n_{2}}{n_{14}}$$

$$= 3^{2} \cdot \frac{n_{2}}{n_{2}}$$

Height:
$$\frac{n}{2^i} = 1 = \log n$$

Sum of i-level:
$$3^{\frac{1}{2}} \frac{n}{2!}$$

Time complexity: $\frac{1 = \log_2 n}{2!}$

$$= h \sum_{i=0}^{i=\log_2 n} \left(\frac{3}{2}\right)^i$$

$$= N \cdot N \cdot N \cdot \frac{100 \cdot 3}{2}$$

$$T(n) = 3 T(n/2) + O(n)$$
 $C_1 = 3 , b = 2, f(n) = n$
 $n \log_2^3 = n \log_2^3$
 $n \log_2^3 > n$
 $T_{hus}, T(n) = \Theta(n \log_2^3)$