$$P_1 = 1 \times 8 - 1 \times 2 = 6$$

$$P_2 = 1 \times 2 + 3 \times 2 = 8$$

$$P_3 = 7 \times 6 + 5 \times 6 = 72$$

$$P_{6} = 3 \times 4 + 3 \times 2 - 5 \times 4 - 5 \times 2 = -12$$

$$P_{7} = 1 \times 6 + 1 \times 8 - 7 \times 6 - 7 \times 8 = -84$$

$$\implies C_{11} = P_{5} + P_{4} - P_{2} + P_{6} = 18$$

$$C_{12} = P_1 + P_2 = 6 + 8 = 14$$

$$C_{12} = P_1 + P_2 = 6 + 8 = 14$$

 $C_{11} = P_1 + P_4 = 62$

$$C_{2L} = P_{5} + P_{1} - P_{3} - P_{7} = 66$$

$$4.3-1$$
 12.000
 $T(n) = T(n-1) + n$
 63.00
 63.00
 (n^2)
 $T(n) = T(n-1) + n$

$$T(n) = T(n-1) + n = T(n-2) + (n-1) + n$$

$$= T(n-3) + (n-2) + (n-1) + n$$

$$= \frac{T(1) + 2 + 3 + \cdots + n}{2}$$

$$= \frac{(n+2)(n-1)}{2} + T(1)$$

$$= \frac{n^{2} + n - 2}{2} + T(1)$$

$$=\frac{n^2+n-2}{2}+T(1)$$

$$3 \cdot \frac{n}{2}$$

$$| \Rightarrow | Tota | = n \left(\left(\frac{3}{2} \right) + \left(\frac{3}{2}$$

⇒ Total =
$$n + \frac{2}{2}n + (\frac{2}{2})^{\frac{1}{n}} + \dots + (\frac{2}{2})^{\frac{1}{n}} + n + O(n^{\frac{1}{3}})$$

= $n \sum_{i \geq 0} (\frac{1}{2})^{i} + O(n^{\frac{1}{3}})$

= $2((\frac{1}{2})^{\log n} - 1) + O(n^{\frac{1}{3}})$

= $2(n^{\frac{1}{2}} - 1) + O(n^{\frac{1}{3}})$

= $2(n^{\frac{1}{2}} - 1) + O(n^{\frac{1}{3}})$

= $2(n^{\frac{1}{2}} - 1) + O(n^{\frac{1}{3}})$

= $2(n^{\frac{1}{3}} - 1) + O(n^{\frac{1}{3}})$

= $2(n^{\frac{1}{3}} - 1) + O(n^{\frac{1}{3}})$

= $O(n^{\frac{1}{3}})$

(which is the Modern of the content of t

ie : T(n) = 3 T (Ln/2J) + N $\leq 3 \cdot \left[C \left(\frac{n}{2} \right)^{\log 3} - d \left(\frac{n}{2} \right) \right] + N$ $= \frac{3}{2} \log^3 \cdot C \cdot N + N - \frac{3}{2} d \cdot N$ $= C \cdot N + (1 - \frac{3}{2} d) \cdot N$

$$f(n) = \sqrt{n} = O(n^{\log n}) = n^{\frac{1}{2}}$$

符点 2 程 協 (2)
 $T(n) = O(n^{\frac{1}{2}} \log n)$
C.
 $T(n) = 2 T(\frac{n}{4}) + N$
因为 $\alpha = 2$, $b = 4$ $n^{\log n} = n^{\log n}$
 $f(n) = N = O(n^{\frac{1}{2}+\epsilon}) = O(n^{\frac{1}{2}+\epsilon})$