$$T(n) = \begin{cases} 1 & n = 1 \\ T(n-1) + 1 & n > 1 \end{cases}$$

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

$$T(n-k) + 1 & T(n/k+2) + 1 & n = (k/k+2) + 1$$

$$T(n-2) + n^{2}$$

$$T(n-2) + n^{2}$$

$$T(n-2) + n^{2}$$

$$T(n-2) + n^{2}$$

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

$$T(n-4) + (n-2)^{2}$$

$$T(n) = T(n-4) + (n^{2})^{2} + n^{2}$$

$$T(n-4) + (n^{2})^{2} + (n^{2})^{2} + n^{2}$$

$$T(n) = T(n-2) + \log n$$

$$T(n-2) = T(n-4) + \log (n-2)$$

$$T(n-4) = T(n-6) + \log (n-4)$$

$$T(n) = T(n-2k) + \log (n-2) + \log (n-4) + \log (n-4k)$$

$$\frac{n-2k}{2k-n} = 0 + \log (n) + \log (n-2) + \log (n-4) + \log (n-4) + \log (n)$$

$$\frac{2k-n}{2k-n} + \log (n) + \log (n-2) + \log (n-4) + \log (n)$$

$$\frac{2k-n}{2k-n} + \log (n) + \log (n-2) + \log (n-4) + \log (n)$$

$$\frac{2k-n}{2k-n} + \log (n-2) + \log (n-4) + \log (n-4)$$

$$\frac{2k-n}{2k-n} + \log (n-2) + \log (n-4) + \log (n-4)$$

$$\frac{2k-n}{2k-n} + \log (n-2) + \log (n-4) + \log (n-4)$$

$$\frac{2k-n}{2k-n} + \log (n-2) + \log (n-4)$$

$$\frac{2k-n}{2k-n} + \log (n-2)$$

$$\frac{2k-n}{2k-n} + \log (n-2$$

$$T(n) = 1.2 + 2.2^{2} + 3.2^{2} + ... + (n-1)2^{n-1} + n.2^{n} + 0$$

$$= \frac{1}{2} + \frac{1}$$

$$f(n) = 0 g(n)$$

$$f(n) = 1$$

$$f(n) = 0 g(n)$$

$$f$$

= 21 100 N