A3

$$T(n)=1+C_{1}\cdot\left[\log_{2}(N)\right]+1+C_{1}\cdot\left[\log_{2}(N)\right]+1+C_{2}\cdot\left[\log_{2}(N)\right]+1+C_{3}\cdot\left[\log_{2}(N)\right]+1+C_{3}\cdot\left[\log_{2}(N)\right]+1+C_{3}\cdot\left[\log_{2}(N)\right]+1+C_{3}\cdot\left[\log_{2}(N)\right]+1+C_{3}\cdot\left[\log_{2}(N)\right]+1+C_{3}\cdot\left[\log_{2}(N)\right]+1+C_{3}\cdot\left[\log_{2}(N)\right]+1+C_{3}\cdot\left[\log_{2}(N)\right]+1+C_{3}\cdot\left[\log_{2}(N)\right]+1+C_{3}\cdot\left[\log_{2}(N)\right]+1+C_{3}\cdot\left[\log_{2}(N)\right]+1+C_{4}\cdot\left[\log_{2}(N)\right]+1+$$

 $|Le_{g_{i}(k)}|^{+1}$ $+ \sum_{i=2}^{l} 1 + (h-1)(C_{i}+(3)+k\cdot C_{4}+(h-2-k)C_{5}$

 $N^{o}2$ $T(u) = \Theta(N \cdot log(N)) - \exists mo \ Syyem \ cyaleylubo$ $m.k \ T(h) = O(N \cdot log(N))$

 $T(u) = \Omega(N \cdot loy(N))$