$$T(n)$$
  $S$   $T(n)$  + log  $n$  will  $2$  1,  $n = 1$ 
 $n = 2^m$ 
 $T(2^-) = T(2^{m/2}) + \log n$ 
 $T(2^m) = S(m)$ 
 $S(m) = S(m/2) + \log n$ 
 $\alpha = 1$   $b = 2$   $f(n) = \log n$ 

$$T(n) = n \log_{10} u(n)$$

$$= n \log_{21} u(n)$$

$$= n^{0} u(n)$$

$$h(n) = f(n)$$

$$= \log_{10} n$$

$$n = 2^{m}$$

$$T(2^{-}) = T(2^{m/2}) + \log n$$

$$T(2^{m}) = S(m)$$

$$S(m) = S(m/2) \cdot \log n$$

$$T(n) = n \log 6^{\circ} U(n)$$

$$= \log_{2} n^{\circ H} \cdot \log n$$

$$= \log_{2} n^{\circ H} \cdot \log n$$

$$= \log_{2} n^{\circ H} \cdot \log n$$

$$T(n) = \log n \cdot \log n$$
  
Substituting back us to  
earlier eq.  
 $T(n) = 2^{\log n} \cdot \log n$ 

$$n = 2^m$$

$$T(n) = O(\log \log n \cdot \log n)$$