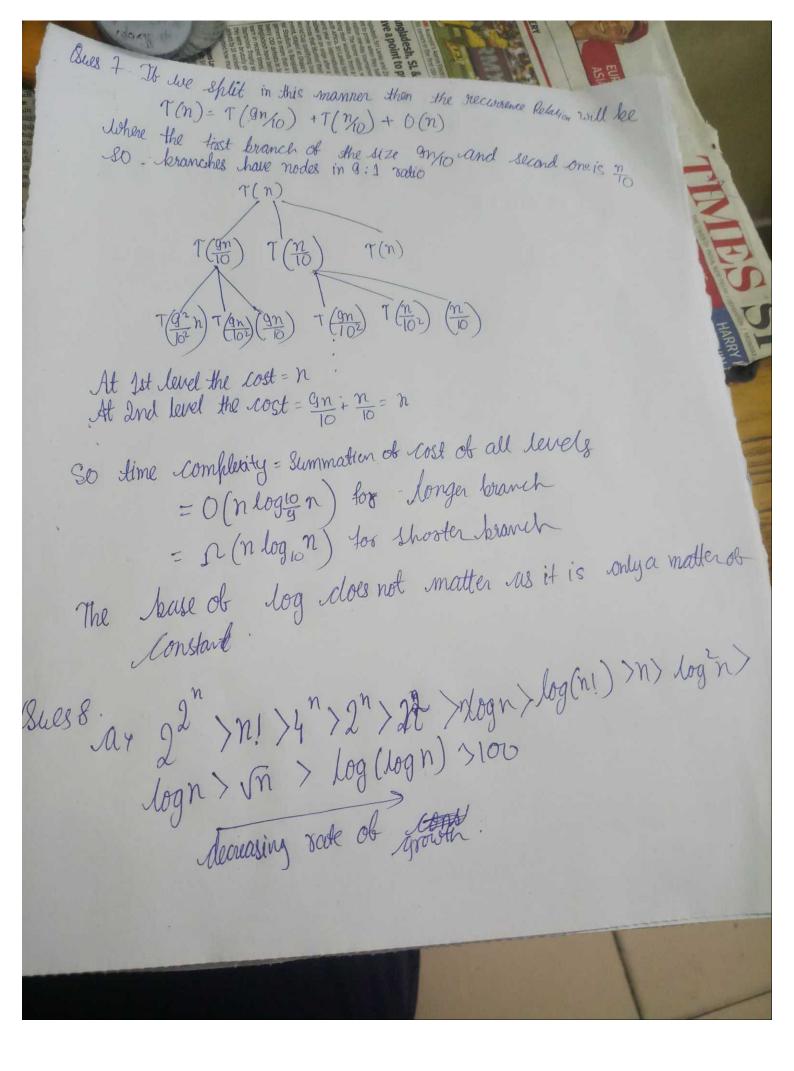
for (int i=0; ien; i++) { for (int j= 1 ; 1>0; j= 5/2) { Lout & "* " «endl; T.C= O (mlogn)) for (int i=0; ixn; ++1) for (int j= 0; j(n; 4+1) for (int k=0; k(n;++k) cout ((" ★" (cend)) 7.C= O(n3) for (int i= n; i>0; i= 1/2) for (int j=n; j>0; j= j/2) Cort (("A" ≪endl; (7.C = 0 (log(logn))) Bull 5 Inner loop executes n/i time for each value of i. Its naming time is O (nlogn). The lost term must be less than or equal to n and we have 2 k log k (log (n)) = glog(n) = n So there are in total (logk (logn)) many iterations .. T.C= O(log(log(n)))



 $n! > 2(2^n) > blog(n) > log(n!) > 4n > 2n > 2log(n) > log(n) > log(n)$ $\sqrt{(logn)} > log(log(n)) > 1$ g^{2^n} > n! > $7n^3$ > $8n^2$ > $n\log_6(n)$ > $n\log_2(n)$ > $\log_6(n!)$ > $\log_8(n)$ > log_(n) >5n >96