Master Theorem T(n) = a T(n) + O(nd) a >1 -> no. of subproblems. n/b -> size of each subproblem, (b>1) O(nd) -> cost outside recursive calls (e-g- partitioning/ werging) C-1/ logg >d C-2 logga =d [C-3] loga <d Receptive work dominate pecusive lenon-secreta Non-recusive dominat $T(n) = O(n^{\log a})$ $|T(n) = O(n^{d} \log n)$ $|T(n) = n^{d}$ $O^{2} \setminus \Gamma(n) = 5 T(n/2) + O(n)$ a=5, b=2, d=1 logs >1 [logs >d][case-1] $T(n) = O(n^{\log_2 S}) = O(n^{2.32})$

