Class 14

Merge Sort Compartison based sorting algo O(kNlog2N) N=# of elements k = cost of comparing two elements <u>s</u>[4,7] {2,3,5,7} 5[0,3] 82,73 X 5[0,1] 550,0] log\_(N)=3 Te: (N.log\_N) 

count invertsion )=10 6,4,3,2,1  $P_{x} = P_{x-1} + P_{x-2}$