disproved next page num of larger and smaller keys everly distributed across both holves 5 key Cmp (continued) (1) 1 vs 2 3 vs 2 3 vs 4 3 1 from larger, 1 from smaller 14 [3] 2 1 vs 2, 4 vs 2, 4 vs 3 3 1 large, \$ small 1 large, \$ small 3 2 vs 1, 2 vs 4, 3vs 4 13 4 1 3 II K 42 vs 1, 2 vs 3, 4 vs 3 possible number of key Cmp at 1 merge: 2,3 22) key Comp - 2 combinations of 4 permittions - 8 permy totions 3) key Cmp - 4 combinations of 4 permutations -> (6 permutations 62x2 (swap order of subarray)

