

Best case: O(n2) Avenuge Case: O(n2)
Worst case: (1) Given an average of [4, -2, -5, 3, 10, -5, 2, 8, -3, 6, 7,4, 1,9, -1,0, -6,7,11,-9] integers sout the following elements using insortion sout using Boute force algorithm obsidery analyze time complexity. dref- Given away 18 4-2,5,3,10,-5,2,8,-3,6,7,-4,1,9,-1,0,-6,7),1 insert 4, -2 Ingert - 3 -5-3-2 23 U 5 8 10 1 -24 In ser 5 Insert 6 -5 -3 -2 2 3 4 5 6 8 10 -2.45 Insert 7 Insent 3 -23 45 -5 -3 -2 2 3 4 5 6 7 8 10 Insert - 10 Insert 4 -2 3 4 510 -5 -4-3-2 2 3 4 5 6 7 8 10 Insent -3 Inser 1 -5 -2 3 4 510 -5 -4-3-201234567310 Ingery 2 Insert 9 -5 -Le -3-2 01 23 4 56 7996 -5 -22 3 45 10 Insert 8 Insert -1 -5 -4 -3 -2 -1 1 2 3 4 5 6 7 89 10 _ 5 - 2 2 3 4 5 8 10 Insert O -5-4-3-2-101234567896 Insert 6 -6 -5 -4 -3 -2 -1 012345678 910 Insent -8 -8-6-5-4-3-2-101234 5 6789 10 Insert 11 -8 -6 -5 -4-1612 345678910 -9-8-6-5-4-33-2-101234567 39 10 11

and Seet the following elements. Wing mestion sour wing Boute Dice approach [38,27 43, 8, 9, 82, 10, 15, 88, 52, 60, 15] and analyze complexity of the algorithm. Insert 38,27 38 43 27 Inject 43 3 27 38 43 Insert 3 27 38 43 Insert 9 9 27 38 43 Insert 81 9 10 27 38 43 82 Insect 10 3 9 10 15 27 38 43 82 83 Insect 15 3 9 10 15 27 38 43 82 Insert 88 3 9 10 15 27 38 43 52 82 83 Inject 52 27 38 43 52 60 82 88 3 9 10 15 Insect 60 60 3 5 9 10 15 27 38 43 52

Time Complexity: Best Case: O(n)

Insecut 5

Avexage Case: O(12)

worst case: O(n2)