

The time complexity of merge soit in O(nlogn) where n is the non of elements in the list is split into halve, logn times and n.

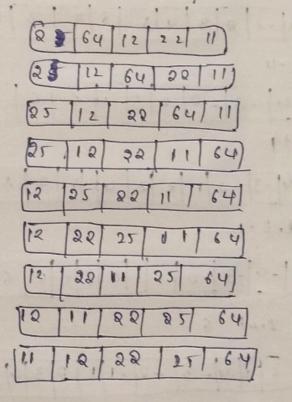
merging is all the elements at each level takes B(n) the.

Soit the array Gu, 30, 25, 12, 22,11, 90 Using bobble what is the time complexity of selection soit in the lint coom t and average asse.

(3) Soit the array 64, 27, 12,28,11 Uning selection soil. Whaths the n. c of selection sort in the but, worst and average cases?

64 25 12 22 11

In the selection we will fix that from the longest element in there correct position first _ 50



The sorted bot is 11/19, 12, 25, 64

Time omplexity +

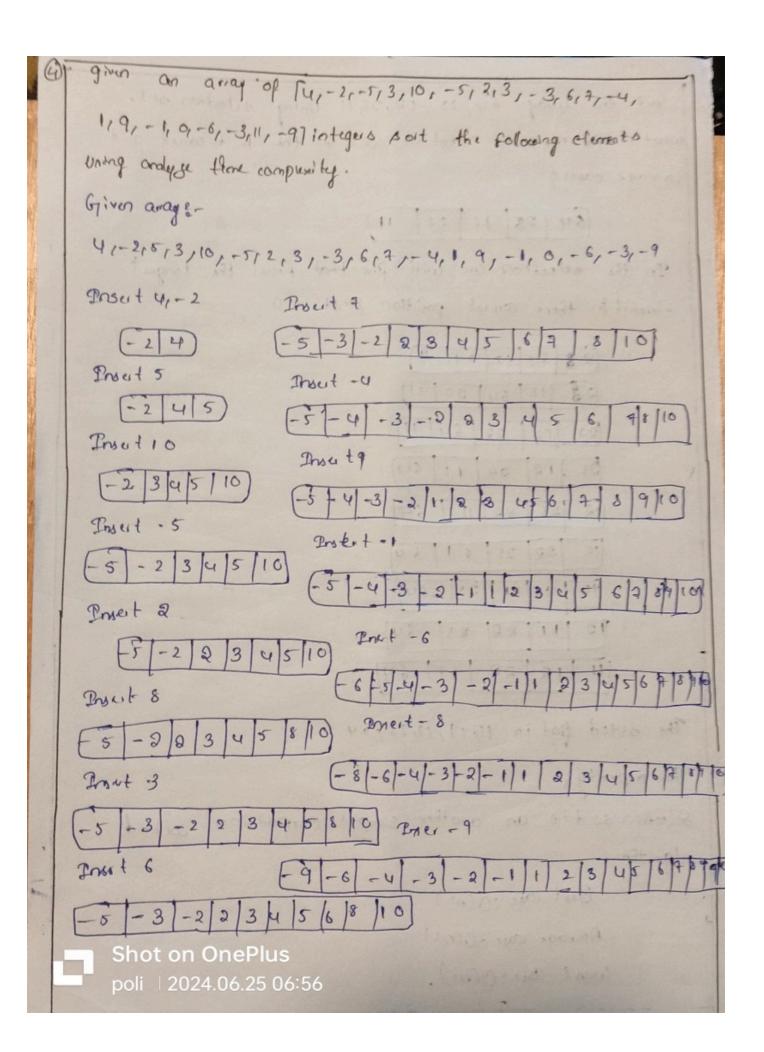
Selection soit is an another simple compansion soited

Bist cove : 0 (nz)

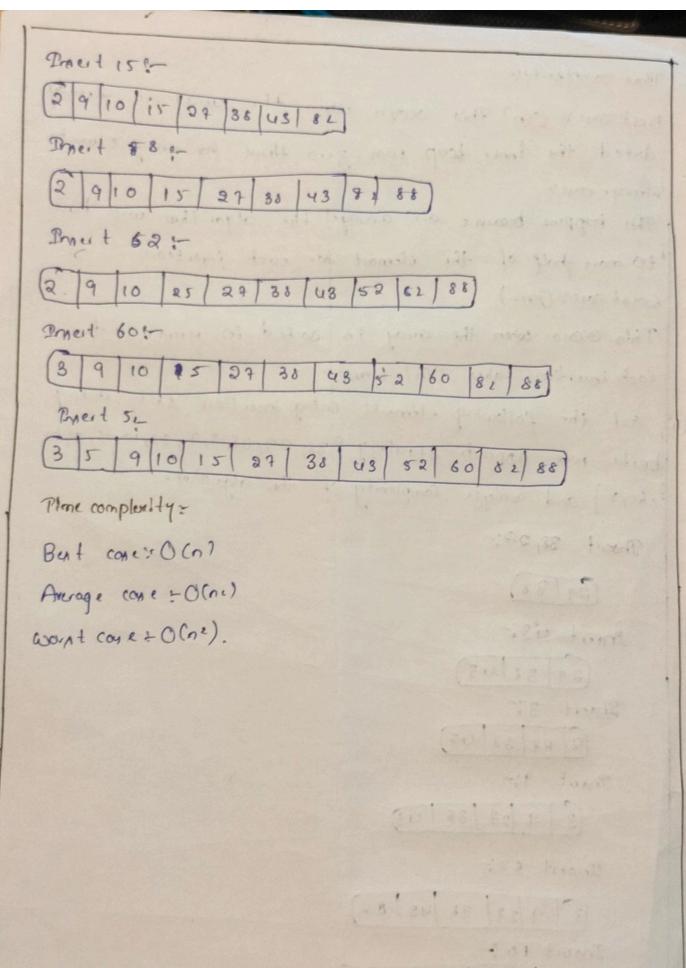
Arrage case: O(n2)

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The complexitys-Best course ocn) This occurs when the array is already sorted the laner toop rom 300 times for every themat Arenge court-This happens because an arrage the algorithm will have to more half of the element for each invertion. Worst cases (Ochz) This occors when the array is soited in revene order each insution takes O(n) times. soit the following elements oning insution part oning boute fore approch stratingy [38, 27,03,319,82,10,15,8452 ,60,5 and analyse complexity of the algorithm. Procest 38, 27: (29/38) Donat 43: (27 38 U3) Amut 3: (2 24 38 U3) Draut 9: (3 9 27 35 US) Inpert 825 9 27 38 43 82 Invest 105 Shot on One Plus 3 / 12 ooli | 2024.06.25 06:56



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