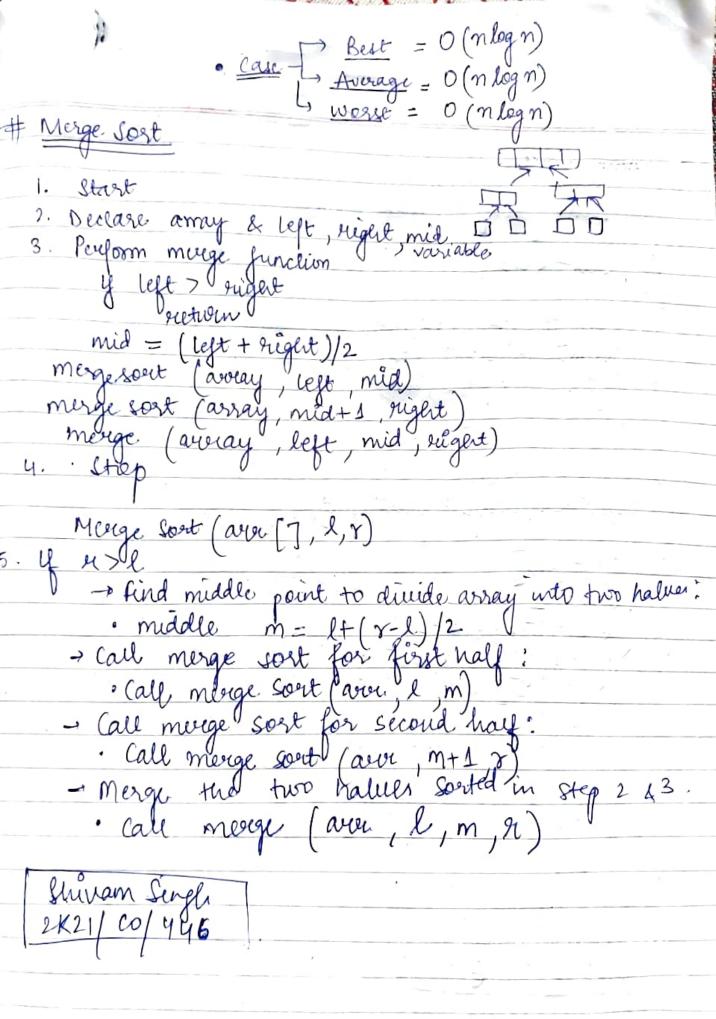
Case Best: 0(1)

Average: 0(logn)

worst: 0(logn) # Binary Search 1. Def. binary Search (A,x): 2. n = len(A) 3. beg = 0 4. end = n-1 5. Kesult = -1 6. While (big < = end): 7. mid = (big+end)/2 8. If (Afmid) (= x): 10. Juesult = mid (1. Else: 12. end = mid-1 13. Return result

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· Case [ Best . O(nlogn) - Amage: 0 (m/s) Quick Sost QUICKSORT (array A, start, end) if (stast (end) P= pardition (A start end) QUICKSORT (A start P-1) QUICKSORT (A start P-1) 4. 5. QUICKSORT (A, p+1, end) 7 8. Partition Algorithm: Partition ( sta array A, start, end) Epivot? A [end] i? start -1 for ; 2 start to end-1 do if [A[j] < pivot

Swap A[i] wian A[j]

8. Surap A[i+1] with A[end] return i+1 10.

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