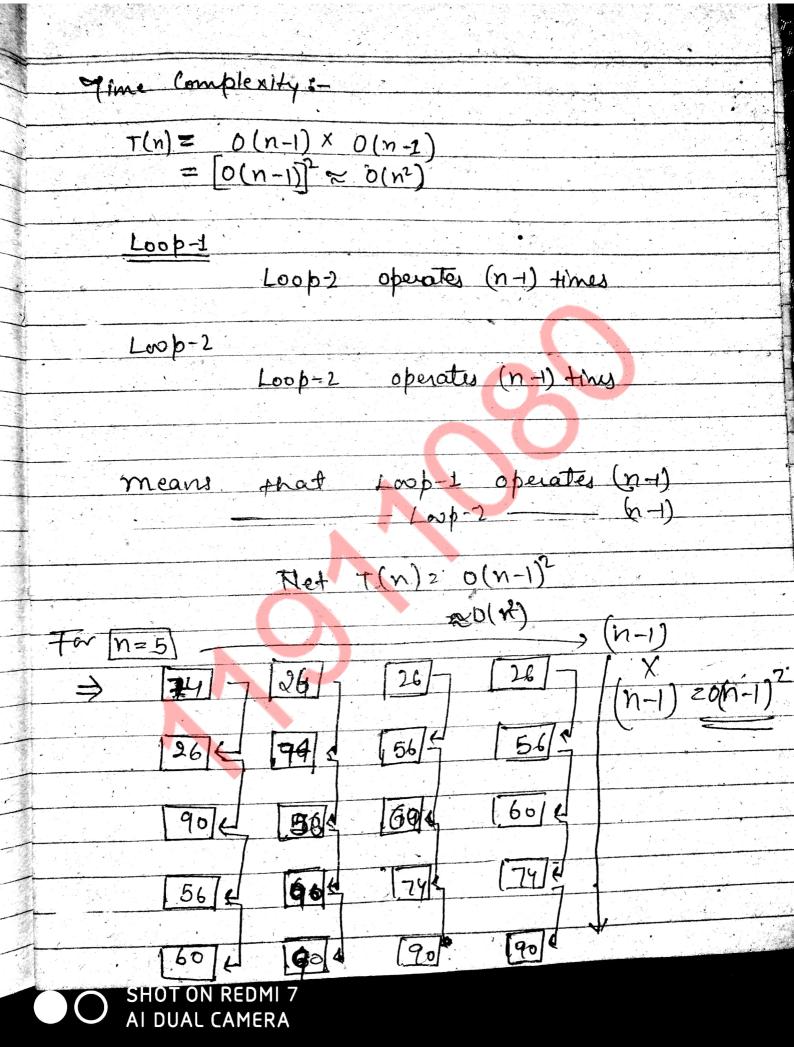
New 1 Analysis of time complexity of any list in insection sobrt. case sort schould be in ascending order as we know Algorithm Inselection. Sortor for (int x=1; X<n; X++) temp = am [x] for (int y= x-1; 4>=0; 4--) if (temp < arr[4]) temp[4+1] = tomp[4]; temp[y] = temp; else break; consider Hist is \$7,9,11,13,16} Loop-1-) temp = 17 Loop249 (9<7) else break

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Loop 2 [Y=1] V 770 + rue els (A1< am [1]) fran break false means at x=2 Loop 2 has bound coll conce again— So we can say - [In Ascendy rule Loop-1 Loop-2 No.	
Similarly (ii) for X=2 femb=11 Loop2 [Y=1] \(\frac{41}{200} \) fran break false means at X=2 Loop2 has boundable once again- So we can say - [In Ascending order Loop-1 Loop-2 No.	
Similarly (ii) for X=2 temp=11 Loop2 [Y=1] \(\frac{1}{2} \) fran break false means at X=2 Loop2 has boundable conce again- So we can say - [In Ascendy ada Loop-1 Loop-2 No.	
temb=11 Loop2 [Y=1] \(\text{Y=1} \) \(\text{Y=2} \) \(\text{Y=2} \) \(\text{Y=0} \)	\int
Loop 2 Y=1 Y70 + nue Y=	1
100 p2 [Y=1] V 770 + rue y (41 < am [1]) fran break False means at x=2 loop2 has bound coll conce again— So we can say - [In Ascendy ander Loop-1 Loop-2 No.	
els (+1< arr [+1]) than break False means at x=2 loop2 has bound coll once again— So we can say - [4n Ascending arden Loop-1 Loop-2 Nove y=0 1	
els (+1< arr [+1]) than break False means at x=2 loop2 has bound coll once again— So we can say - [4n Ascending arden Loop-1 Loop-2 Nove y=0 1	-
Talse means at x=2 loop2 has bound colle conce again- So we can say - [In Ascending ader Loop-1 Loop-2 No.	
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So we can say - [In Ascending ander Loop-1 Loop-2 No.	
So we can say - [In Ascending ander Loop-1 Loop-2 No.	4
So we can say - [In Ascending order Loop-1 Loop-2 Nov.	
Loop-1 Loop-2 Nov.	
Loop-1 Loop-2 Nov.	
Y=0 1	
The state of the s	
×22	
X=3	
× 24	
×25	
	,
$\frac{y_{z}^{2}-2}{x_{z}^{2}-1}$	
	Marine T
SHOWLONLREDMY Total Proposal	

Time complexity = o(n-1) &o(n) lus)2 Magasti-* Bubble sort: Algorithmsfor lint a=0; asn+ia++) for lint b=0; b(ma++) & Ca[b]>a[b++] temp= a[b]; a[b] = a[bfi]; a[b+1] = tembi DUAL CAMERA



Space Complexity 6-0(1) = Constant flerge sort Algorithm:void menge sont (int 1, intr, inta) if (\$< 8) int m = (1+r); mengesort (I, m, a); mergesort (m+1, st, a); merge (1, m, r, a); merge (int 1, int m, int r int * b.) void int n12 m-1+1; int m2 = r-m; # array[n1]; so tres initial Data # array2[n2]; solvier final port of Date than buill store in arrayty array 2 to of by sorting with o(n)

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consider a element AITIO E lovel 3 0131A 14,7,A - led 2 M. (274) = 01,1,A 213,A 4,5,A 6,7,A n (1 x8)= 0,0,A 0000 212,A 4,4,A Number of Level 10(0n) = log_2(n) = log_2(0)=3 Time Complexity (T(n)) > n logn Merge sort. space Complexity = O(n) * Inscution surt Algo nithms-For Lint a=1. ja(n j. a++) for (înt 620-1; 6>20; 6+4) SHOT ON REL AI DUAL CAME

if (array [b] > array [b+2]) tempozamay [b] array[b] = trendy[b+1]) array [b+1] = temp; break; # time complexity at worst case = o(n2)
best case = o(n) # Space Complexity = O(1) * Quick Bots-# Provot declaration important from its original array. it is used to by part array into two way which are in which first 8 subarray contains all makes tens than piret of AI DUAL CAMERA

other soub array will content all values partition (& man, array) 120; m2n-1 int start = l int end 2 m pivot = a[1] while (stoon) (end) while (a:[stort] <= pivot) for (start) stort ++ ; while (a [end > pivot) & & (end>=) if (stort < end) soaping (array Estart], arrelas swaping (away [l.], away [end] return end;

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