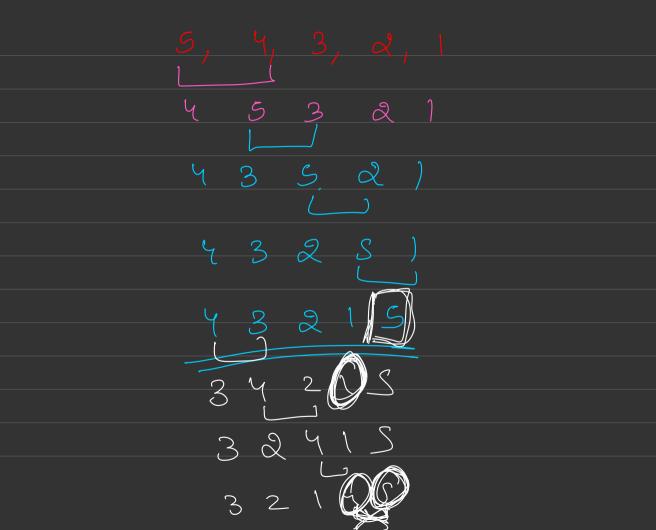
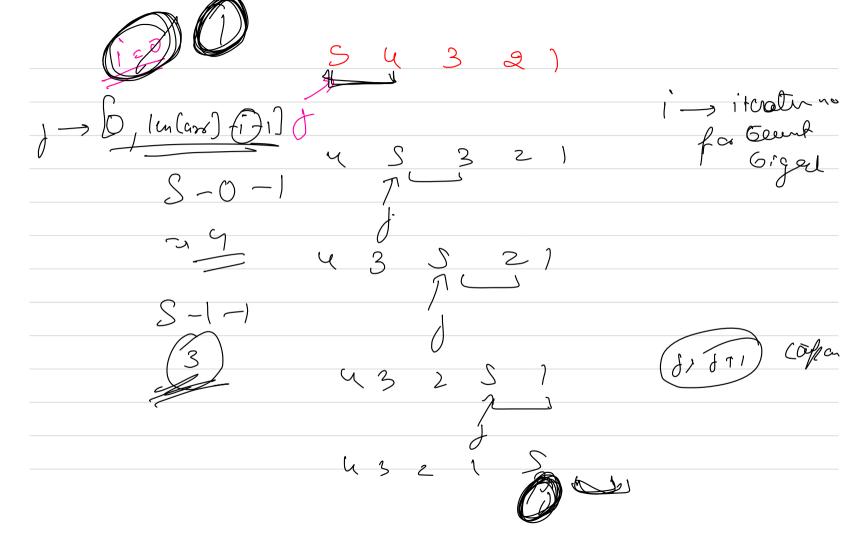
Agenda - Code Bubble Sort

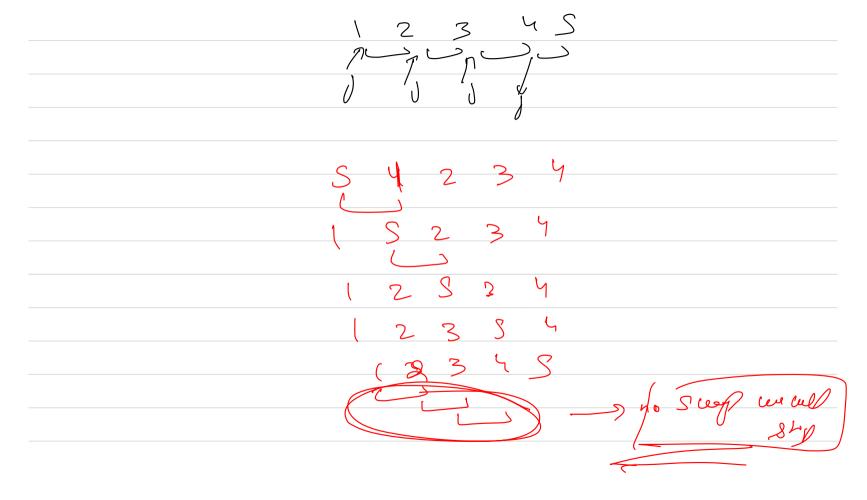
Insertien sort

Counting Sort



5, 4, 3, 2, 1 4 5 3 2 1 por not sept





def bubble_sort(arr);
 for i in range(0, len(arr));
 swapped False or len (core)-1 > i-start from O & ends of for j in range(0, len(arr) - i - 1): ler (000)-1 if arr[j] > arr[j+1]: arr[j], arr[j+1] = arr[j+1], arr[j]swapped = True if not swapped: 10 11 12 who iso Swapped True Tru Tru Trau

N-1 4 n-1 + n-1 1-1
q(n-i)
∩-(+ n-2 t n-3)

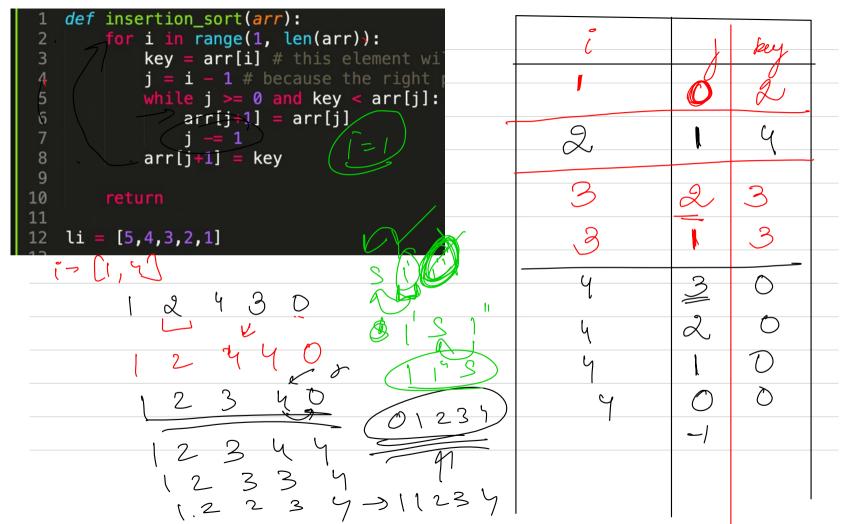
= Insertion Vart: insert de rightpost Scoted uno ortiel search first for the right position of the const Insert that 2th cood to the right

25, 17, 31, 13,
$$\alpha$$

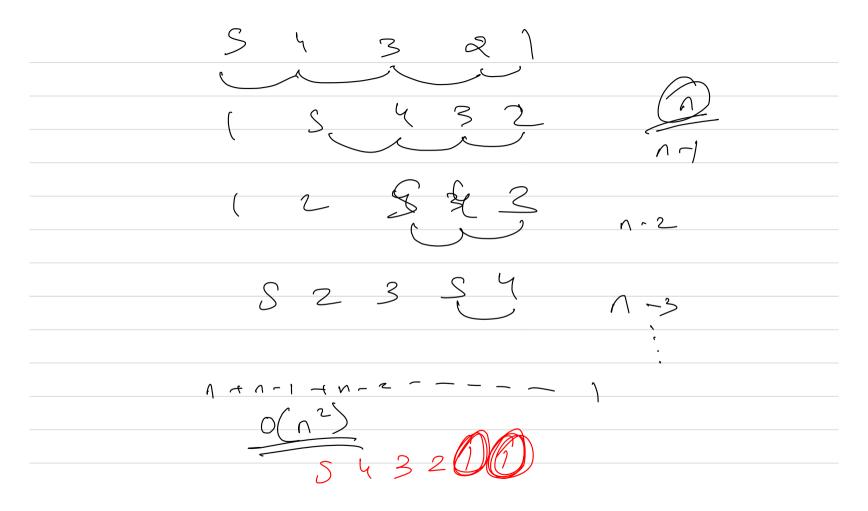
12, α 31, 13, α

13, α 13, α 13, α 14, α 15, α 17, α 18, α 18,

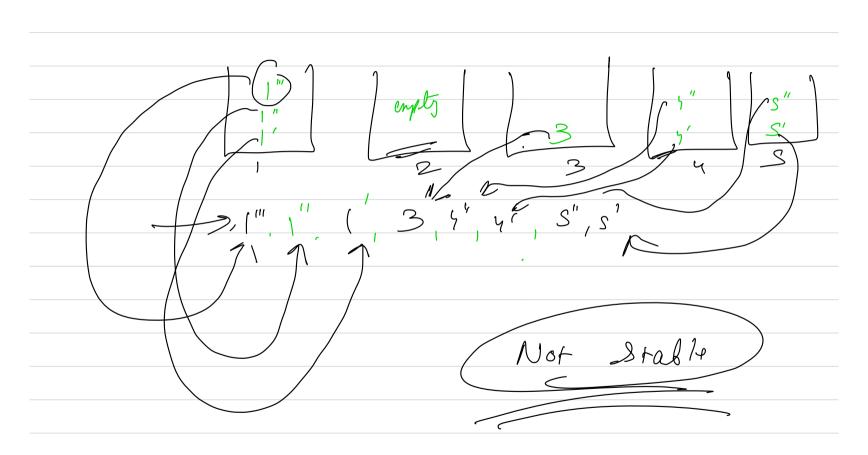
2 was the first deut less a the key So sight place of key ceull Ge to no glest right of a (1+1)

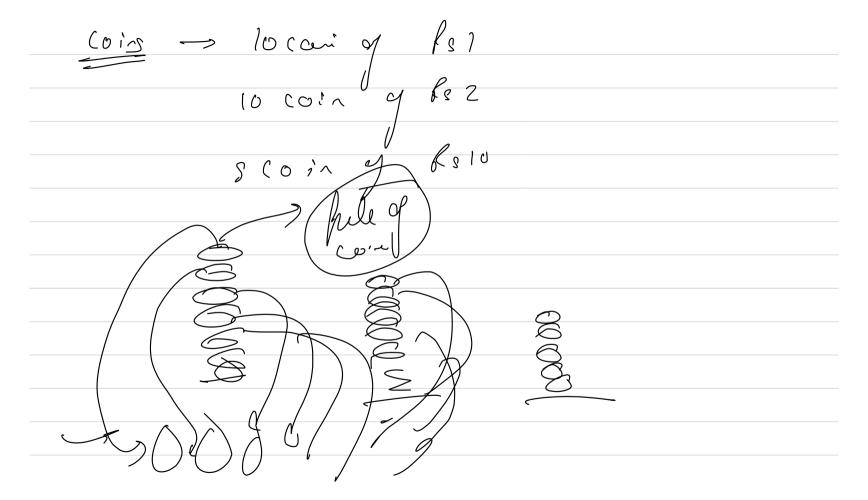


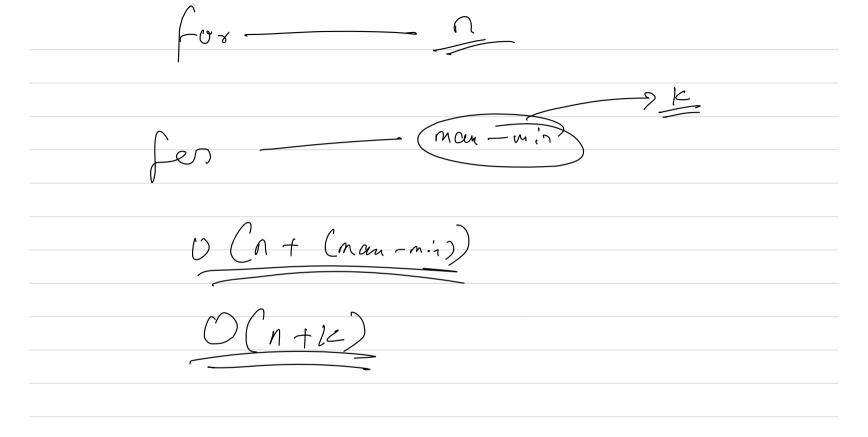
 $TC \rightarrow O(n^2)$ Space - O(1) No of 8 maps -> 0 (n2) No of company of (n2)



4/26 Ounting 2 May







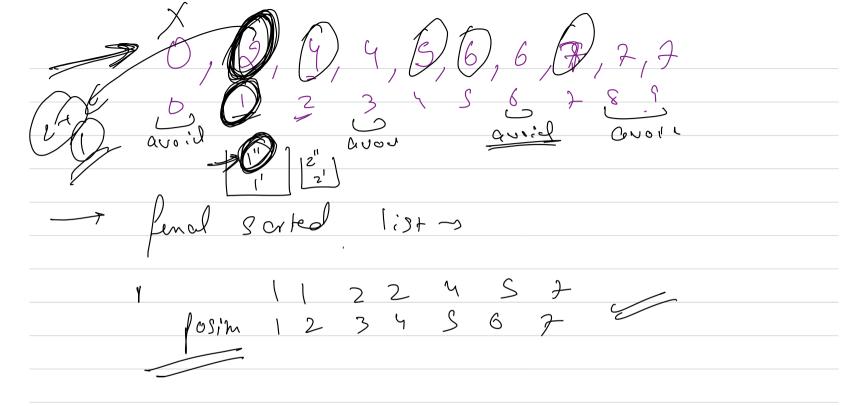
-> 1, 4, 1, 2, 2, S, 2 -> <u>ans</u> 0 2 2 0 1 1 0 1 50,0 Count (let)
0 1 2 3 4 5 6 7 89

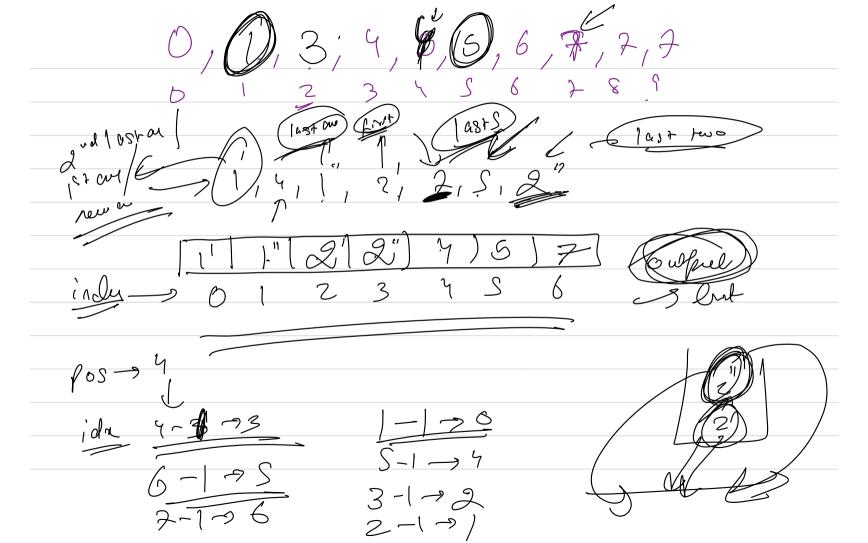
["] [2"]

(man-min) > 0,2,4,4,5,6,6,7,2,7 - prefinsur under C D 1 2 3 1 5 6 7 8 9 Consider 2 -> current value is 4 which denotes the hosina of the last 2 in the scoted list

value of freser (i) > the position of the

last are CiJ in the scoted from.





Stuble - Yes Inflaco - 1 rage of elements value T(-> 0 ('n+1c) Sugs? - NO Comparison - No