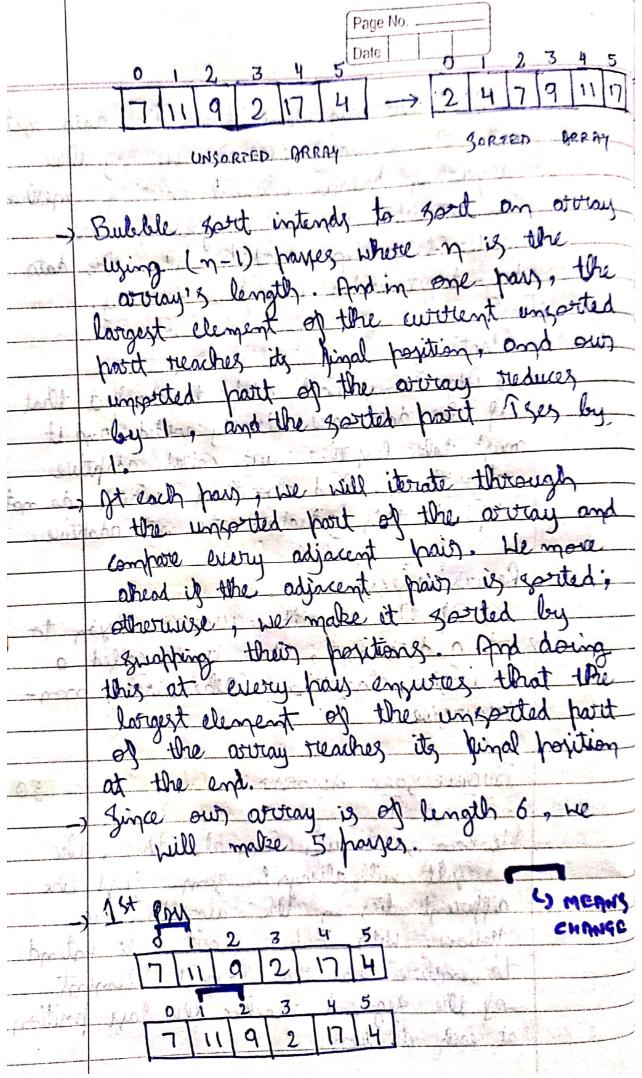
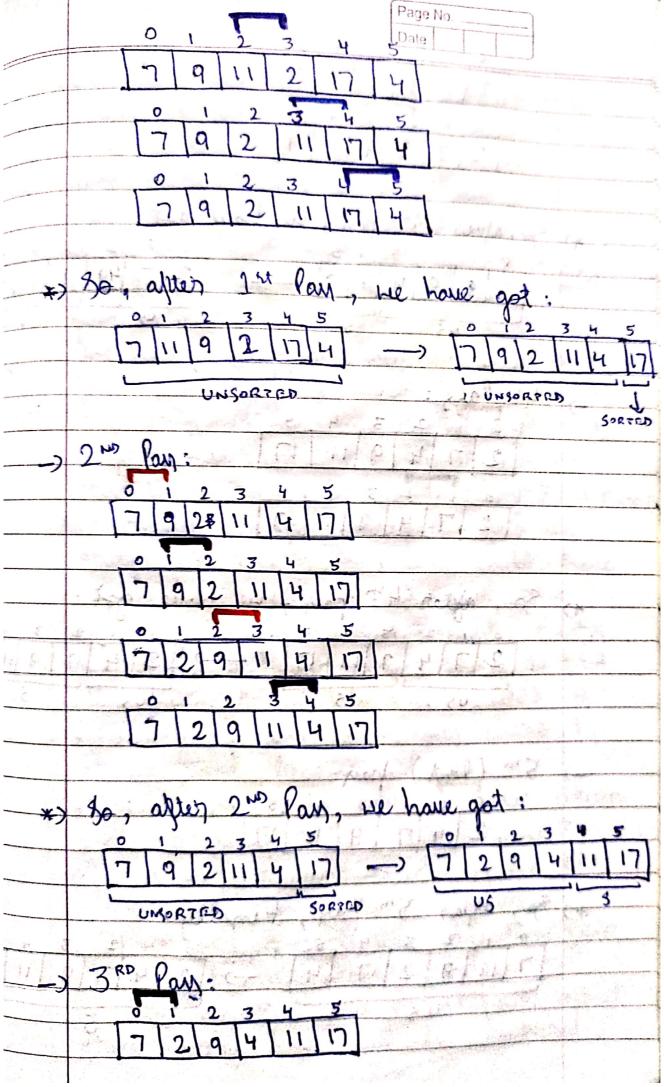
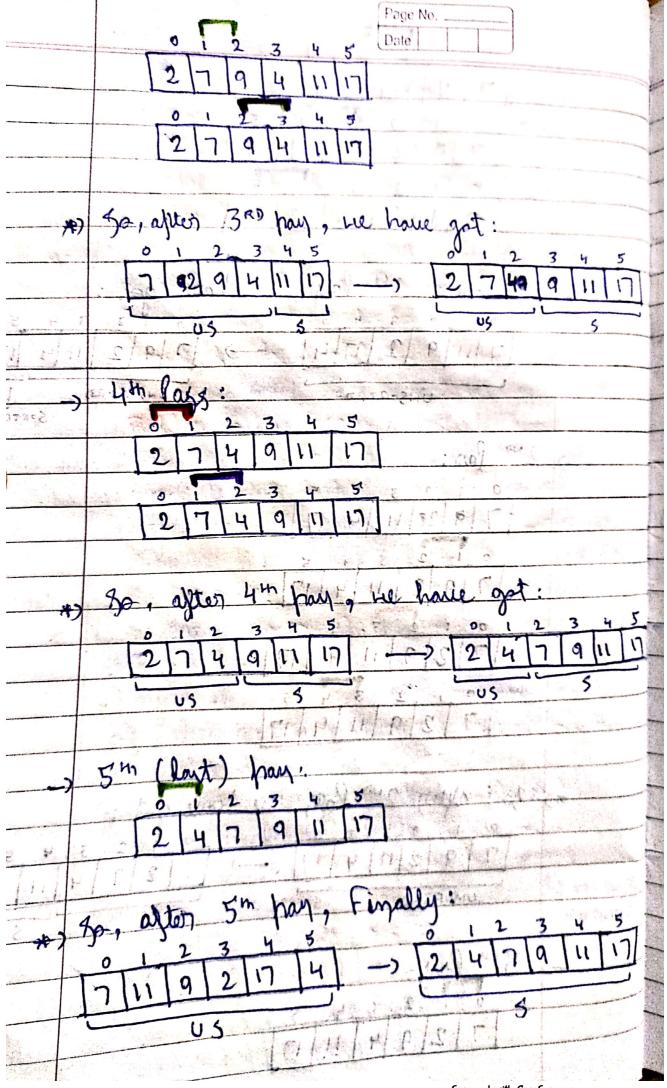
BUBBLE GORF ALGORITHM can sort with any algorithm, the regult will always be gome jus different lies in the algorithm th Bubble 300 to ensure that the larges of the segment reaches the each iteration







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of this is what the Bubble sort algorithm

- Time Complexity of Bubble 30it:

- If you count the number of compositions we made, there were (5+4+3+2+1), that is, a total of 15 comparisons. And every time we composed, we had a fair probability of making a zuch. So, 15 comparisons intend to make 15 possible zmaps. For length 6, we had 5+4+3+2+1 number of comparisons and parible zuaps, Therefore, for an array of length n, we would (n-1) + (n-2)+(n-3)+(m-4)+. + 1 comparison and possible greates. . This is a high school thing to find the gum from 1 to n-1 , which n(n-1)/2, and hence our complexity of runting become O(n2) - And if you could objetue, we never made a great when two elements of a pair become equal. Hence the algorithm is a stable algorithm It is not a recurgine algorithm since didn't use trecution here. This algorithm has no adaptive aspect since every pair will be compared,

even if the ovicery given has already been sorted to no adaptiveney. Although it can be modified to make it adaptive, it is not a adaptive Buleble soit is called buleble because it bubbles of up lighter elements to the left and stores larger towards the right.