**Group Members:**

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**Project code handling:**

Comb Sort is mainly an improvement over Bubble Sort.

Algorithm:  
1.    Create variables gap and swapped and constant SHRINK\_FACTOR and initialize as below:  
          i. gap = size of the array  
         ii. swapped = false  
        iii. SHRINK\_FACTOR = 1.3  
    'swapped' is used to check whether any 2 elements have been swapped at the end of an iteration, like it is used in Bubble Sort algorithm for optimization.  
2.    Set swapped = false  
3.    Set gap = (int) (gap/SHRINK\_FACTOR).  
4.    Iterate over the array from i = 0 to i < n - gap:  
    a.    If array[i] > array[i + gap]  
         i.    swap the elements array[i] and array[i + gap], to arrange in sorted order  
        ii.    set swapped = true  
5.  Repeat steps 2-4 while gap != 1 and swapped = true

**HOW TO RUN THE CODE OF THE FILE SUBMITTED:**

1. press f5+ctrl.

2. enter the array of length 5 unsorted which you want to sort .

3 press enter and youll get the sorted array .