1. Insertion sort:

Input: Possibly unsorted array of data.

Output: Sorted array of data.

Begin

For i = 1 to length(array-1)

Begin

tmp = array[i];

j = i – 1;

while j >= 0 && array[j] > tmp

Begin

array[j + 1] = array[j];

j--;

End

Array[j + 1] = tmp;

Print the contents of the partly sorted array as a semi colon delimited list ending with a newline.

End

End

2. Selection Sort:

Input: Possibly unsorted array of data.

Output: Sorted array of data.

Begin

        For i = 0 to length(array)-1

        Begin

                Select the smallest element from array[i] to array[length(array)-1];

                Swap the smallest element with array[i];

                Print the contents of the partly sorted array as a semi colon delimited list ending with a newline.

        End

End

3. Bubble Sort

Input: Possibly unsorted array of data.

Output: Sorted array of data.

Begin

        For i = 0 to length(array)-2

        Begin

                For j = length(array)-1 down to i+1

                Begin

                        If elements in position j and j-1 are out of order, swap them

                End

                Print the contents of the partly sorted array as a semi colon delimited list ending with a newline.

        End

End

4. Comb Sort

Input: Possibly unsorted array of data.

Output: Sorted array of data.

Begin

    gap = length(array)

    swapped = false;

    while gap > 1 or swapped

    Begin

        Swapped = false

        If gap > 1

        Begin

            gap = floor(gap/1.3)

        End

        i = 0

        while i + gap < length(array)

        Begin

            if array[i] > array[i + gap]

            Begin

                swap array[i] with array[i + gap]

                set swapped to true.

            End

            i += 1

        End

        Print the contents of the partly sorted array as a semi colon delimited list ending with a newline.

        Print the gap as follows: Gap: {gap}\n

            //So if gap = 4 then the output should be: Gap: 4\n

    End

End