

this is a sorting program

GET array1

GET array2

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def sublist_stop_finder(i, which_array)
    sublist_stop = ''
    sublist_start = i
    if which_array == 1
        while sublist_stop == ''
            if array1[sublist_start] > array1[sublist_start+1]
                sublist_stop = sublist_start
            elif array1[i] <= array1[i+1]
                sublist_start += 1
        return sublist_stop
    if which_array == 2
        while sublist_stop == ''
            if array2[sublist_start] > array2[sublist_start+1]
                sublist_stop = sublist_start
            elif array2[i] <= array2[i+1]
                sublist_start += 1
        return sublist_stop

def array_sorter(sublist1_start, sublist1_end, sublist2_start,
sublist2_end, which_array, array_start)

    if which_array == 1
        for i_first_subarray in range (sublist1_start, sublist1_end+1)
            for i_second_subarray in range (sublist2_start,
sublist2_end+1)
                if array1[i_first_subarray] <
array1[i_second_subarray]
                    array2[array_start]= array1[i_first_subarray]
                    array_start += 1
                elif array1[i_first_subarray] >
array1[i_second_subarray]
                    array2[array_start]= array1[i_second_subarray]
                    array_start += 1
                elif array1[i_first_subarray] ==
array1[i_second_subarray]
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        array2[array_start]= array1[i_second_subarray]
        array_start += 1
    return array_start
elif which_array == 2
    for i_first_subarray in range (sublist1_start, sublist1_end+1)
        for i_second_subarray in range (sublist2_start,
sublist2_end+1)
            if array2[i_first_subarray] <
array2[i_second_subarray]
                array1[array_start]= array2[i_first_subarray]
                array_start += 1
            elif array2[i_first_subarray] >
array2[i_second_subarray]
                array1[array_start]= array2[i_second_subarray]
                array_start += 1
            elif array2[i_first_subarray] ==
array2[i_second_subarray]
                array1[array_start]= array2[i_second_subarray]
                array_start += 1
    return array_start

def make_sublists(array_start, which_array)
    done = false
    sublist1_start = array_start
    sublist1_end = sublist_stop_finder(array_start, which_array)
    sublist2_start = sublist1_end + 1
    sublist2_end = sublist_stop_finder(sublist2_start, which_array)
    return sublist1_start, sublist1_end, sublist2_start, sublist2_end,
done

def which_array()
    if which_array == 1
        which_array = 2
    elif which_array == 2
        which_array = 1
    else
        which_array = 1

def main()
    done = False
    array_start = 0
    which_array = 1

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while done == False:
    which_array = which_array_finder(which_array)
    sublist1_start, sublist1_end, sublist2_start, sublist2_end,
done = make_sublists(array_start, which_array)
    array_start = array_sorter(sublist1_start, sublist1_end,
sublist2_start, sublist2_end, which_array, array_start)
    print(f"array1 {array1}")
    print(f"array2 {array2}")
```