Zoho Corporation - Programming Test

Section - B

1. You are given two sorted integer arrays A and B. The sort order can be ascending or descending. Write a program to create an array C that contains integers from A and B. C should be in ascending order and shouldn't have any duplicates.
Note: Removal of duplicates and ordering has to be done while adding elements to C. i.e. don't write separate loops to sort and remove duplicates.

Examples:
Input: [3, 6, 9], [8, 7, 5]
Output: [3, 5, 6, 7, 8, 9]
Input: [9, 9, 6, 3], [5, 7, 8, 9]
Output: [3, 5, 6, 7, 8, 9]
Input: [9, 6], [5, 17, 21]
Output: [5, 6, 9, 17, 21]

2. Alternate sorting: Given an array of integers, rearrange the array in such a way that the first element is first maximum and second element is first minimum and repeat the same sorting for the subsequent pairs

first element - first maximum
second element - first minimum
third element - second maximum
fourth element - second minimum ....

Example:
Input : {1, 2, 3, 4, 5, 6, 7}
Output : {7, 1, 6, 2, 5, 3, 4}