

# Zoho Corporation - Programming Test

## Section A:

1. You are given two sorted integer arrays A and B. The sort order can be ascending or descending. Write a program to create a array C that contains integers from A and B. C is in ascending order and has no duplicate.

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}