Array Problems

1. You have given an integer array which contains numbers from 1 to 100 but one number is missing, you need to write a C# program to find that missing number in an array.

How to find duplicate numbers

1. An array contains n numbers ranging from 0 to n-2. There is exactly one number is repeated in the array. You need to write a program to find that duplicate number. For example, if an array with length 5 contains numbers {0, 3, 1, 2, 3}, then duplicated number is 3
2. How to find largest and smallest number in unsorted array? You have given an unsorted integer array and you need to find the largest and smallest element in the array. (you are not allowed to sort the array)