

## Sort 0 1 2

You are given an integer array containing only 0s, 1s and 2s. Write a solution to sort this array using one scan only.

You need to change in the given array itself. So no need to return or print anything.

Input Format:

Line 1 : Integer n (Array Size)

Line 2 : Array elements (separated by space)

Sample Input

7

0 1 2 0 2 0 1

Sample Output

0 0 0 1 1 2 2