

Move all zeros to end of array

Problem Statement

Given an array of random numbers, Push all the zeros of a given array to the end of the array. For example, if the given array is {1, 9, 8, 4, 0, 0, 2, 7, 0, 6, 0}, it should be changed to {1, 9, 8, 4, 2, 7, 6, 0, 0, 0, 0}. The order of all other elements should be the same. Expected time complexity is $O(n)$ and extra space is $O(1)$.

Example:

Input : arr[] = {1, 2, 0, 4, 3, 0, 5, 0};

Output : arr[] = {1, 2, 4, 3, 5, 0, 0, 0};

Input : arr[] = {1, 2, 0, 0, 0, 3, 6};

Output : arr[] = {1, 2, 3, 6, 0, 0, 0};