

## Sort 0s, 1s and 2s

Difficulty: Easy

Accuracy: 50.58%

Submissions: 734K+

Points: 2

Given an array `arr[]` containing only **0s, 1s, and 2s**. Sort the array in ascending order.

## Examples:

**Input:** `arr[] = [0, 1, 2, 0, 1, 2]`**Output:** `[0, 0, 1, 1, 2, 2]`**Explanation:** 0s 1s and 2s are segregated into ascending order.**Input:** `arr[] = [0, 1, 1, 0, 1, 2, 1, 2, 0, 0, 0, 1]`**Output:** `[0, 0, 0, 0, 0, 1, 1, 1, 1, 1, 2, 2]`**Explanation:** 0s 1s and 2s are segregated into ascending order.

## Constraints:

 $1 \leq \text{arr.size()} \leq 10^6$  $0 \leq \text{arr}[i] \leq 2$ 

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Java (1.8)

Average Time: 10m

Start Timer

    

```
1 // } Driver Code Ends
32 class Solution {
33     public void sort012(int[] arr) {
34         int n = arr.length;
35         int a = 0;
36         int b = n - 1;
37         int mid = 0, temp = 0;
38         while (mid <= b) {
39             if (arr[mid] == 0) {
40                 swap(arr, mid, a);
41                 a++;
42                 mid++;
43             }
44             else if (arr[mid] == 1) {
45                 mid++;
46             }
47             else {
48                 swap(arr, mid, b);
49                 b--;
50             }
51         }
52     }
53     public void swap(int[] arr, int i, int j) {
54         int temp = arr[i];
55         arr[i] = arr[j];
56         arr[j] = temp;
57     }
58 }
59 // } Driver Code Ends
```



Custom Input

Compile &amp; Run

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