//Sort 0s, 1s and 2s

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

Examples:

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

Code:

```c
#include <stdio.h>

int main() {
    int n;

    printf("Enter the number of elements in the array: ");
    scanf("%d", &n);

    int arr[n];

    printf("Enter the elements of the array (0s, 1s, and 2s): ");
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

    int low = 0, mid = 0, high = n - 1;

    while (mid <= high) {
        if (arr[mid] == 0) {

            int temp = arr[low];
            arr[low] = arr[mid];
            arr[mid] = temp;
            low++;
```

```c
            mid++;
        } else if (arr[mid] == 1) {

            mid++;
        } else {

            int temp = arr[mid];
            arr[mid] = arr[high];
            arr[high] = temp;
            high--;
        }
    }

    printf("Sorted array: ");
    for (int i = 0; i < n; i++) {
        printf("%d ", arr[i]);
    }
    printf("\n");

    return 0;
}
```