

Sort the Array of 0s, 1s, and 2s.

```
#include <stdio.h>

int main() {
    int n;

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

    int arr[n];

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

    int i = 0; // Current index
    int j = 0; // Next position for 0
    int k = n - 1; // Next position for 2

    while (i <= k) {
        if (arr[i] == 0) {
            int temp = arr[i];
            arr[i] = arr[j];
            arr[j] = temp;

            i++;
            j++;
        } else if (arr[i] == 1) {
```

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        i++;  
    } else { // arr[i] == 2  
        int temp = arr[i];  
        arr[i] = arr[k];  
        arr[k] = temp;  
        k--;  
    }  
}  
  
printf("Sorted array: ");  
for (int i = 0; i < n; i++) {  
    printf("%d ", arr[i]);  
}  
  
printf("\n");  
  
return 0;  
}
```