

7. sort of array of 0's,1's,2's

```
#include <stdio.h>
```

```
int main() {  
    int n;  
    printf("Enter the number of elements: ");  
    scanf("%d", &n);  
    int arr[n];  
    printf("Enter %d integers:\n", n);  
    for (int i = 0; i < n; i++) {  
        scanf("%d", &arr[i]);  
    }  
    int count0 = 0, count1 = 0, count2 = 0;  
    for (int i = 0; i < n; i++) {  
        if (arr[i] == 0) count0++;  
        else if (arr[i] == 1) count1++;  
        else if (arr[i] == 2) count2++;  
    }  
    for (int i = 0; i < count0; i++) arr[i] = 0;  
    for (int i = count0; i < count0 + count1; i++) arr[i] = 1;  
    for (int i = count0 + count1; i < count0+count1+count2; i++) arr[i] = 2;  
    for (int i = 0; i < count0+count1+count2; i++) {  
        printf("%d ", arr[i]);  
    }  
  
    return 0;  
}
```