

```
1
2  #include <stdio.h>
3
4  int main() {
5      int n;
6      printf("Enter the size of array: ");
7      scanf("%d", &n);
8      int a[1000];
9      printf("Enter the elements of array: ");
10     for (int i = 0; i < n; i++) {
11         scanf("%d", &a[i]);
12     }
13     int count0 = 0, count1 = 0, count2 = 0;
14     for (int i = 0; i < n; i++) {
15         if (a[i] == 0) count0++;
16         else if (a[i] == 1) count1++;
17         else if (a[i] == 2) count2++;
18     }
19     for (int i = 0; i < count0; i++) a[i] = 0;
20     for (int i = count0; i < count0 + count1; i++) a[i] = 1;
21     for (int i = count0 + count1; i < count0 + count1 + count2; i++) [i] = 2;
22     for (int i = 0; i < count0 + count1 + count2; i++) {
23         printf("%d ", a[i]);
24     }
25
26     return 0;
27 }
28
```