

```
1 //
2 // Created by hengxin on 11/18/22.
3 //
4
5 #include <stdio.h>
6
7 #define LEN_L 5
8 #define LEN_R 6
9
10 void Merge(int L[], int llen, int R[], int rlen);
11
12 int main() {
13     int L[LEN_L] = {1, 3, 5, 7, 9};
14     int R[LEN_R] = {0, 2, 4, 6, 8, 10};
15
16     Merge(L, LEN_L, R, LEN_R);
17
18     return 0;
19 }
20
21 void Merge(int L[], int llen, int R[], int rlen) {
22     int l = 0;
23     int r = 0;
24
25     while (l < llen && r < rlen) {
26         if (L[l] <= R[r]) {
27             printf("%d ", L[l]);
28             l++;
29         } else {
30             printf("%d ", R[r]);
31             r++;
32         }
33     }
34
35     // l >= llen || r >= rlen
36     while (r < rlen) {
37         printf("%d ", R[r]);
38         r++;
39     }
40
41     while (l < llen) {
42         printf("%d ", L[l]);
43         l++;
44     }
45 }
```