```
#include <stdio.h>
#define max 10
int a[11] = \{ 10, 14, 19, 26, 27, 31, 33, 35, 42, 44, 0 \};
int b[10];
void merging(int low, int mid, int high) {
   int 11, 12, i;
   for (11 = low, 12 = mid + 1, i = low; 11 <= mid && 12 <= high; i++) {
      if(a[11] \le a[12])
         b[i] = a[11++];
      else
         b[i] = a[12++];
   }
   while(l1 <= mid)</pre>
      b[i++] = a[l1++];
   while(12 <= high)</pre>
      b[i++] = a[12++];
   for(i = low; i \le high; i++)
      a[i] = b[i];
}
void sort(int low, int high) {
   int mid;
   if(low < high) {</pre>
      mid = (low + high) / 2;
      sort(low, mid);
      sort(mid+1, high);
      merging(low, mid, high);
   } else {
      return;
   }
}
int main() {
   int i;
   printf("List before sorting\n");
   for(i = 0; i \le max; i++)
      printf("%d ", a[i]);
   sort(0, max);
   printf("\nList after sorting\n");
   for(i = 0; i \le max; i++)
      printf("%d ", a[i]);
}
```

List before sorting
10 14 19 26 27 31 33 35 42 44 0
List after sorting
0 10 14 19 26 27 31 33 35 42 44

...Program finished with exit code 0
Press ENTER to exit console.