```
#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 l1, l2, i;
 for(1 = low, 12 = mid + 1, i = low; 11 \le mid && 12 \le high; i++) {
   if(a[l1] <= a[l2])
     b[i] = a[l1++];
   else
     b[i] = a[l2++];
 }
 while(I1 <= mid)
   b[i++] = a[l1++];
 while(I2 <= high)
   b[i++] = a[l2++];
 for(i = low; i <= high; i++)
   a[i] = b[i];
}
void sort(int low, int high) {
 int mid;
```

if(low < high) {

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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 <= max; i++)
   printf("%d ", a[i]);
 sort(0, max);
 printf("\nList after sorting\n");
 for(i = 0; i <= max; i++)
   printf("%d ", a[i]);
```

| } | | 26.7 |
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| Process exited after 0.01407 seconds with return value 3 Press any key to continue | | |
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