



```
1
2 void mergeSort(int arr[], int l, int r)
3 {
4     if (l < r)
5     {
6         int m = l + (r - l) / 2;
7         mergeSort(arr, l, m);
8         mergeSort(arr, m + 1, r);
9         merge(arr, l, m, r);
10    }
11 }
12
13 void printArray(int A[], int size)
14 {
15     int i;
16     for (i = 0; i < size; i++)
17         printf("%d ", A[i]);
18     printf("\n");
19 }
20 int main()
21 {
22     int arr[] = {26, 45, 52, 41, 61, 32};
23     int arr_size = sizeof(arr) / sizeof(arr[0]);
24
25     printf("Given array is \n");
26     printArray(arr, arr_size);
27
28     mergeSort(arr, 0, arr_size - 1);
29
30     printf("\nSorted array is \n");
31     printArray(arr, arr_size);
32     return 0;
33 }
34
35 // Output:
36
37 // Given array is
38 // 26 45 52 41 61 32
39
40 // Sorted array is
41 // 26 32 41 45 52 61
42
```