

```

1 #include<stdio.h>
2
3 void swap(int* Array,int a,int b){
4     int temp=Array[a];
5     Array[a]=Array[b];
6     Array[b]=temp;
7 }
8
9 int Partition(int Array[],int low,int high){
10     int pivot = Array[low];
11     int i=low-1;
12     int j=high+1;
13
14     while(i<j){
15         do{
16             i++;
17         }while(Array[i]<=pivot);
18
19         do{
20             j--;
21         }while(Array[j]>pivot);
22
23         if(i<j){
24             swap(Array,i,j);
25         }
26     }
27
28     swap(Array,low,j);
29     return j;
30 }
31 void QuickSort(int Array[],int low,int high){
32
33     if(low<high){
34
35         int partition_index = Partition(Array,low,high);
36         QuickSort(Array,low,partition_index-1);
37         QuickSort(Array,partition_index+1,high);
38     }
39 }
40
41
42 int main(){
43     int Array[7]={50,20,30,10,5,60,70};
44     QuickSort(Array,0,6);
45
46     for(int i=0;i<7;i++){
47         printf(" %d ",Array[i]);
48     }
49 }

```