```
#include<stdio.h>
2
   #include <time.h>
   void quicksort(int number[],int first,int last){
      int i, j, pivot, temp;
4
5 -
       if(first<last){
6
          pivot=first;
7
          i=first;
8
          j=last;
          while(i<j){
9 =
10
             while(number[i]<=number[pivot]&&i<last)</pre>
11
12
             while(number[j]>number[pivot])
13
14-
              if(i∢j){
temp=number[i];
                 number[i]=number[j];
17
                 number[j]=temp;
           temp=number[pivot];
           number[pivot]=number[j];
           number[j]=temp;
```

```
19
20
            temp=number[pivot];
21
            number[pivot]=number[j];
22
            number[j]=temp;
23
            quicksort(number,first,j-1);
24
            quicksort(number,j+1,last);
25
26
27 int main(){
         int i, n, count, number[n];
 28
         printf("Enter number of elements in the array:\n");
 29
         scanf("%d",&count);
         printf("Enter %d numbers\n", count);
 31
 32
         for(i=0;i<count;i++)</pre>
            scanf("%d",&number[i]);
 33
       clock_t begin = clock();
         quicksort(number,0,count-1);
         printf("Printing the sorted array:\n");
         clock_t end = clock();
double time_spent = (double)(end - begin) / CLOCKS_PER_SEC;
         printf("\nExecution Time : %.10fseconds\n", time_spent);
```

artil-numbertil. Y / 9 Enter number of elements in the array: 5 Enter 5 numbers 4 9 10 3 9 Printing the sorted array: 3 4 9 9 10 Execution Time : 0.0000220000seconds ...Program finished with exit code 0 Press ENTER to exit console.