**QUICK SORT**

**#include<stdio.h>**

**void quicksort(int number[25],int first,int last){**

**int i, j, pivot, temp;**

**if(first<last){**

**pivot=first;**

**i=first;**

**j=last;**

**while(i<j){**

**while(number[i]<=number[pivot]&&i<last)**

**i++;**

**while(number[j]>number[pivot])**

**j--;**

**if(i<j){**

**temp=number[i];**

**number[i]=number[j];**

**number[j]=temp;**

**}**

**}**

**temp=number[pivot];**

**number[pivot]=number[j];**

**number[j]=temp;**

**quicksort(number,first,j-1);**

**quicksort(number,j+1,last);**

**}**

**}**

**int main(){**

**int i, count, number[25];**

**printf("How many elements are u going to enter?: ");**

**scanf("%d",&count);**

**printf("Enter %d elements: ", count);**

**for(i=0;i<count;i++)**

**scanf("%d",&number[i]);**

**quicksort(number,0,count-1);**

**printf("Order of Sorted elements: ");**

**for(i=0;i<count;i++)**

**printf(" %d",number[i]);**

**return 0;**

**}**

**OUTPUT**

**How many elements are u going to enter?: 6**

**Enter 6 elements: 6 5 7 55 88 00**

**Order of Sorted elements: 0 5 6 7 55 88**