```c
#include<stdio.h>

void quicksort(int x[20],int first,int last)

{

int pivot,j,temp,i;

if(first<last)

{

pivot=first;

i=first;

j=last;

while(i<j)

{

while(x[i]<=x[pivot]&&i<last)

i++;

while(x[j]>x[pivot])

j--;

if(i<j)

{

temp=x[i];

x[i]=x[j];

x[j]=temp;

}

 }

temp=x[pivot];

x[pivot]=x[j];

x[j]=temp;

quicksort(x,first,j-1);

quicksort(x,j+1,last);

 }

}

int main()

{
```

```c
int x[20],size,i;

printf("\tQuick sort\n");

printf("----------------------------------\n");

printf(" How many numbers you want to sort?: ");

scanf("%d",&size);

printf("\n Enter %d elements: \n",size);

for(i=0;i<size;i++)

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

quicksort(x,0,size-1);

printf("\n Sorted elements after applying quick sort: \n\n");

for(i=0;i<size;i++)

printf(" %d",x[i]);

return 0;

}
```

```
        Quick sort
------------------------------------
 How many numbers you want to sort?: 5

 Enter 5 elements:
3
2
1
6
5

 Sorted elements after applying quick sort:

 1 2 3 5 6
------------------------------------
Process exited after 12.05 seconds with return value 0
Press any key to continue . . . _
```