**Write a recursive function to sort a given list of numbers. Write a main function to test the same.**

void sort(int list[], int n){

int i, tmp, min;

if (n == 1) //base case

return;

/\* find index of smallest no \*/

min = 0;

for(i = 1; i < n; i++)

if (list[i] < list[min])

min = i;

/\* move smallest element to 0-th element \*/

tmp = list[0];

list[0] = list[min];

list[min] = tmp;

/\* recursion \*/

sort(&list[1], n);

}

void main(){

int a[100], n;

cout<<”Enter no. Of elements : “;

cin>>n;

cout<<”Enter the elements : “;

for(int i=0;i<n;i++)

cin>>a[i];

//sort using recursion

Sort(list,n);

cout<<”Sorted list : “;

for(int i=0;i<n;i++)

cout<<a[i]<<” “;

}