**void** **swap**(**int** arr[] , **int** pos1, **int** pos2){

**int** temp;

temp = arr[pos1];

arr[pos1] = arr[pos2];

arr[pos2] = temp;

}

**int** **partition**(**int** arr[], **int** low, **int** high, **int** pivot){

**int** i = low;

**int** j = low;

**while**( i <= high){

**if**(arr[i] > pivot){

i++;

}

**else**{

swap(arr,i,j);

i++;

j++;

}

}

**return** j-**1**;

}

**void** **quickSort**(**int** arr[], **int** low, **int** high){

**if**(low < high){

**int** pivot = arr[high];

**int** pos = partition(arr, low, high, pivot);

quickSort(arr, low, pos-**1**);

quickSort(arr, pos+**1**, high);

}

}

**int** **main**()

{

**int** n ;

cout << " enter the size of array";

cin>>n;

**int** arr[n];

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

cin>> arr[i];

}

quickSort(arr, **0** , n-**1**);

cout<<"The sorted array is: ";

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

cout<< arr[i]<<"**\t**";

}

}