#include <iostream>

#include <string.h>

#include <stdio.h>

#include <stdlib.h>

#include <time.h>

using namespace std;

void showArr(int arr[], int max)

{

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

cout << arr[i] << "; ";

cout << endl;

}

void mergesortquick\_sort(int arr[], int begin, int end)

{

if (begin >= end)

return;

int p = arr[end];

int i = begin;

mergesortquick\_sort(arr, begin, i-1);

mergesortquick\_sort(arr, i+1, end);

for (int j = begin; j < end; j++ )

{

if (arr[j]<p)

{

int temp = arr[i];

arr[i] = arr[j];

arr[j]= temp;

i++;

}

}

int temp = arr[i];

arr[i] = arr[end];

arr[end]= temp;

}

int main(int argc, char\*\* argv) {

int arr [4]= {9,1,5,3};

showArr(arr, 4);

mergesortquick\_sort(arr, 0, 3);

showArr(arr, 4);

return 0;

}