#include <iostream>

#include <cstdlib>

#include <ctime>

using namespace std;

#define MAX 10

void swap(int\* a, int\* b) {

int temp = \*a;

\*a = \*b;

\*b = temp;

}

void quickSortRecursive(int arr[], int l, int r) {

int i, j, x;

x = arr[(l + r) / 2];

i = l;

j = r;

while (i <= j) {

while (arr[i] < x) i++;

while (arr[j] > x) j--;

if (i <= j) {

swap(&arr[i], &arr[j]);

i++;

j--;

}

}

if (l < j)

quickSortRecursive(arr, l, j);

if (i < r)

quickSortRecursive(arr, i, r);

}

int main() {

int arr[MAX];

srand(time(NULL));

cout << "Data sebelum terurut: ";

for (int i = 0; i < MAX; i++) {

arr[i] = rand() % 100;

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

}

cout << endl;

quickSortRecursive(arr, 0, MAX - 1);

cout << "Data setelah terurut: ";

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

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

cout << endl;

return 0;

}