#include <iostream>

#include <cstdlib>

using namespace std;

const int MAX = 10;

int Data[MAX];

// Prosedur menukar data

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

int temp = \*a;

\*a = \*b;

\*b = temp;

}

// Prosedur pengurutan metode Shell

void ShellSort() {

int Jarak, i, j;

bool Sudah;

Jarak = MAX;

while (Jarak > 1) {

Jarak = Jarak / 2;

Sudah = false;

while (!Sudah) {

Sudah = true;

for (j = 0; j < MAX - Jarak; j++) {

i = j + Jarak;

if (Data[j] > Data[i]) {

Tukar(&Data[j], &Data[i]);

Sudah = false;

}

}

}

}

}

int main() {

int i;

srand(0);

// Membangkitkan bilangan acak

cout << "DATA SEBELUM TERURUT" << endl;

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

Data[i] = rand() / 1000 + 1;

cout << "Data ke " << i << " : " << Data[i] << endl;

}

ShellSort();

// Data setelah terurut

cout << "\nDATA SETELAH TERURUT" << endl;

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

cout << "Data ke " << i << " : " << Data[i] << endl;

}

return 0;

}