#include <iostream>

#include <cstdlib>

using namespace std;

#define MAX 10

int Data[MAX];

// Fungsi pengurutan penyisipan biner

void BinaryInsertSort()

{

int i, j, l, r, m, x;

for (i = 1; i < MAX; i++) {

x = Data[i];

l = 0;

r = i - 1;

while (l <= r) {

m = (l + r) / 2;

if (x < Data[m])

r = m - 1;

else

l = m + 1;

}

for (j = i - 1; j >= l; j--)

Data[j + 1] = Data[j];

Data[l] = x;

}

}

int main()

{

int i;

srand(0);

// Membangkitkan bilangan acak

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

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

{

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

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

}

BinaryInsertSort();

// Data setelah terurut

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

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

{

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

}

return 0;

}