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Tugas Insertion Sort

Coding main.cpp =

#include <iostream>

#include "header.h"

using namespace std;

void insertionSort(int arr[], int n);

int main()

{

int arrI[]={7, 30, 3, 22};

int sI = sizeof(arrI)/sizeof(arrI[0]);

cout << "Step 1, sebelum array proses InsertionSort: \n";

printArray(arrI, sI);

insertionSort(arrI, sI);

cout << "Step 2, sesudah array proses InsertionSort: \n";

printArray(arrI, sI);

return 0;

}

Coding header.h =

#ifndef HEADER\_H\_INCLUDED

#define HEADER\_H\_INCLUDED

#include <iostream>

using namespace std;

void printArray(int arr[], int n)

{

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

{

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

}

cout << endl;

}

void insertionSort(int arr[], int n)

{

int i, j, key;

for(i=1; i<n; i++)

{

key = arr[i];

j = i-1;

while(j>=0 && arr[j]>key)

{

arr[j+1] = arr[j];

j=j-1;

}

arr[j+1] = key;

}

}

#endif // HEADER\_H\_INCLUDED

Hasil coding:

Text

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