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Kelas : IF-46-08

Tugas Pendahuluan MODUL 9

Stack.h

#ifndef STACK\_H\_INCLUDED

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#include <iostream>

using namespace std;

typedef char infotype;

struct stack {

infotype **info**[15];

int **top**;

};

void createStack\_1301223338(stack &s);

bool isEmpty\_1301223338(stack s);

bool isFull\_1301223338(stack s);

void push\_1301223338(stack &s, infotype x);

infotype pop\_1301223338(stack &s);

void printInfo\_1301223338(stack s);

#endif *// STACK\_H\_INCLUDED*

Stack.cpp

#include "stack.h"

void createStack\_1301223338(stack &s){

s.**top** = 0;

}

bool isEmpty\_1301223338(stack s) {

return s.**top** == 0;

}

bool isFull\_1301223338(stack s) {

return s.**top** == 15;

}

void push\_1301223338(stack &s, infotype x){

if(!isFull\_1301223338(s)){

s.**top** = s.**top** + 1;

s.**info**[s.**top**] = x;

}else {

cout << "Stack penuh" << endl;

}

}

infotype pop\_1301223338(stack &s){

infotype x;

if(!isEmpty\_1301223338(s)){

x = s.**info**[s.**top**-1];

s.**top** = s.**top** - 1;

}

return x;

}

void printInfo\_1301223338(stack s){

int i;

for (i = s.**top**; i >= 1; i--){

cout << s.**info**[i];

}

cout << endl;

}

Main.cpp

#include <iostream>

#include "stack.h"

#include "stack.cpp"

using namespace std;

int main()

{

*// NIM : 1301223338 (8 % 4 = 0)*

stack s;

createStack\_1301223338(s);

string uInp;

infotype temp;

int i,c,lenuInp;

cout << "Input : ";

cin >> uInp;

lenuInp = uInp.length();

while (lenuInp > 0)

{

push\_1301223338(s, uInp[lenuInp - 1]);

lenuInp--;

}

cout << "isi stack awal: " << endl;

printInfo\_1301223338(s);

cout << "isi stack sesudah pop: " << endl;

while(!isEmpty\_1301223338(s)){

temp = pop\_1301223338(s);

c++;

if(c >= 6){

cout << temp;

}

}

cout << endl;

return 0;

}

Output

