Stack.h | Stack.cpp | main.cpp

```h
#ifndef STACK_H_INCLUDED
#define STACK_H_INCLUDED
#include <iostream>

using namespace std;

#define Top(S) S.Top
#define info(S) S.info

typedef char infotype;

struct stack{
    infotype info[15];
    int Top;
};

void createStack_1301213072(stack &S);
bool isEmpty_1301213072(stack S);
bool isFull_1301213072(stack S);
void push_1301213072(stack &S, infotype x);
infotype pop_1301213072(stack &S);
void printInfo_1301213072(stack S);

#endif // STACK_H_INCLUDED
```

Stack.h | Stack.cpp | main.cpp

```cpp
#include "Stack.h"

void createStack_1301213072(stack &S){
    Top(S) = 0;
}

bool isEmpty_1301213072(stack S){
    if (Top(S) == 0){
        return Top(S) == 0;
    }else{
        return false;
    }
}

bool isFull_1301213072(stack S){
    if (Top(S) == 15){
        return Top(S) == 15;
    }else{
        return false;
    }
}

void push_1301213072(stack &S, infotype x){
    if (!isFull_1301213072(S)){
        Top(S)++;
        info(S)[Top(S)] = x;
    }
}

infotype pop_1301213072(stack &S){
    infotype x = S.info[S.Top];
    Top(S)--;
    return x;
}

void printInfo_1301213072(stack S){
    for (int i = S.Top; i >= 1; i--){
        cout << S.info[i] << " ";
    }
}
```

Stack.h | Stack.cpp | main.cpp

```cpp
#include "Stack.h"

int main()
{
    stack S;
    createStack_1301213072(S);

    push_1301213072(S, 'I');
    push_1301213072(S, 'R');
    push_1301213072(S, 'I');
    push_1301213072(S, 'D');
    push_1301213072(S, ' ');
    push_1301213072(S, 'A');
    push_1301213072(S, 'Y');
    push_1301213072(S, 'A');
    push_1301213072(S, 'C');
    push_1301213072(S, 'R');
    push_1301213072(S, 'E');
    push_1301213072(S, 'P');

    cout << "===== Sebelum Pop =====" << endl;
    printInfo_1301213072(S);

    for (int i = 8; i >= 1; i--){
        pop_1301213072(S);
    }

    cout << endl << "===== Sesudah Pop =====" << endl;
    printInfo_1301213072(S);

    return 0;
}
```

"C:\Users\linta\OneDrive\Doc

```
===== Sebelum Pop =====
P E R C A Y A   D I R I
===== Sesudah Pop =====
D I R I
Process returned 0 (0x0)   execution time : 0.036 s
Press any key to continue.
```