

```
Stackh x Stackcpp x main.cpp x
1 #ifndef STACK_H_INCLUDED
2 #define STACK_H_INCLUDED
3 #include <iostream>
4
5 using namespace std;
6
7 #define Top(S) S.Top
8 #define info(S) S.info
9
10 typedef char infotype;
11
12 struct stack{
13     infotype info[15];
14     int Top;
15 };
16
17 void createStack_1301213072(stack &S);
18 bool isEmpty_1301213072(stack S);
19 bool isFull_1301213072(stack S);
20 void push_1301213072(stack &S, infotype x);
21 infotype pop_1301213072(stack &S);
22 void printInfo_1301213072(stack S);
23
24 #endif // STACK_H_INCLUDED
25
```

```
Stackh x Stackcpp x main.cpp x
1 #include "Stack.h"
2
3 void createStack_1301213072(stack &S){
4     Top(S) = 0;
5 }
6
7 bool isEmpty_1301213072(stack S){
8     if (Top(S) == 0){
9         return Top(S) == 0;
10    }else{
11        return false;
12    }
13 }
14
15 bool isFull_1301213072(stack S){
16     if (Top(S) == 15){
17         return Top(S) == 15;
18    }else{
19        return false;
20    }
21 }
22
23 void push_1301213072(stack &S, infotype x){
24     if (!isFull_1301213072(S)){
25         Top(S)++;
26         info(S)[Top(S)] = x;
27    }
28 }
29
30 infotype pop_1301213072(stack &S){
31     infotype x = S.info[S.Top];
32     Top(S)--;
33     return x;
34 }
35
36 void printInfo_1301213072(stack S){
37     for (int i = S.Top; i >= 1; i--){
38         cout << S.info[i] << " ";
39     }
40 }
41
```

```
Stackh x Stackcpp x main.cpp x
1 #include "Stack.h"
2
3 int main()
4 {
5     stack S;
6     createStack_1301213072(S);
7
8     push_1301213072(S, 'I');
9     push_1301213072(S, 'R');
10    push_1301213072(S, 'I');
11    push_1301213072(S, 'D');
12    push_1301213072(S, ' ');
13    push_1301213072(S, 'A');
14    push_1301213072(S, 'Y');
15    push_1301213072(S, 'A');
16    push_1301213072(S, 'C');
17    push_1301213072(S, 'R');
18    push_1301213072(S, 'B');
19    push_1301213072(S, 'P');
20
21    cout << "==== Sebelum Pop =====< endl;
22    printInfo_1301213072(S);
23
24    for (int i = 8; i >= 1; i--){
25        pop_1301213072(S);
26    }
27
28    cout << endl << "==== Sesudah Pop =====< endl;
29    printInfo_1301213072(S);
30
31    return 0;
32 }
33
```

```
"C:\Users\linta\OneDrive\Doc x + v
==== 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.
|
```