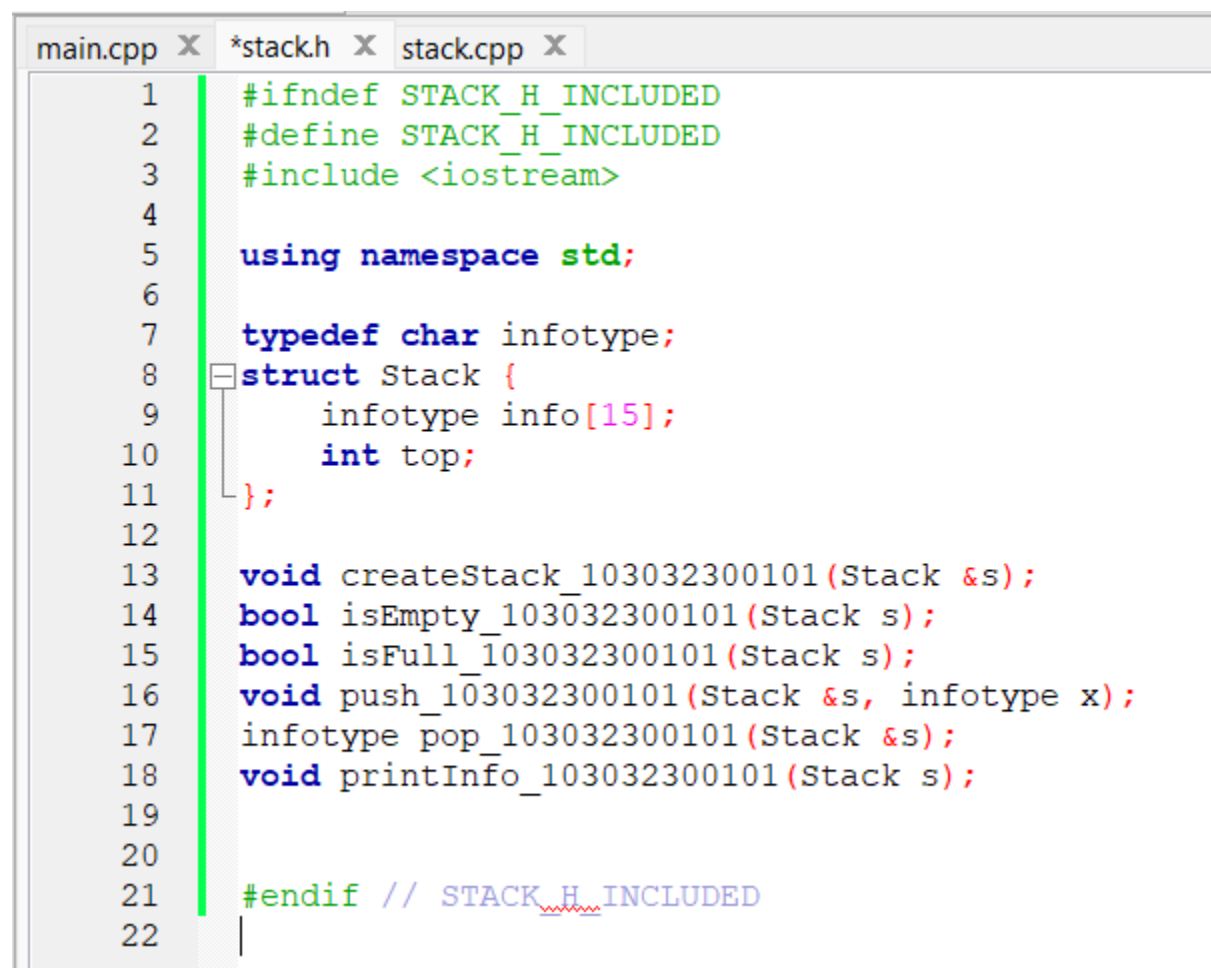


Stack.h



```
1  #ifndef STACK_H_INCLUDED
2  #define STACK_H_INCLUDED
3  #include <iostream>
4
5  using namespace std;
6
7  typedef char infotype;
8  struct Stack {
9      infotype info[15];
10     int top;
11 };
12
13 void createStack_103032300101(Stack &s);
14 bool isEmpty_103032300101(Stack s);
15 bool isFull_103032300101(Stack s);
16 void push_103032300101(Stack &s, infotype x);
17 infotype pop_103032300101(Stack &s);
18 void printInfo_103032300101(Stack s);
19
20
21 #endif // STACK_H_INCLUDED
22
```

Stack.cpp



```
main.cpp X stack.h X stack.cpp X
1  #include "stack.h"
2
3  using namespace std;
4
5  void createStack_103032300101(Stack &s) {
6      s.top = -1;
7  }
8
9  bool isEmpty_103032300101(Stack s) {
10     if (s.top == -1) {
11         return true;
12     } else {
13         return false;
14     }
15 }
16
17 bool isFull_103032300101(Stack s) {
18     if (s.top == 15) {
19         return true;
20     } else {
21         return false;
22     }
23 }
24
25 void push_103032300101(Stack &s, infotype x) {
26     if (s.top != 15) {
27         s.top++;
28         s.info[s.top] = x;
29     } else {
30         cout << "Stack Full" << endl;
```

```
main.cpp X stack.h X stack.cpp X
28         s.info[s.top] = x;
29     } else {
30         cout << "Stack Full" << endl;
31     }
32 }
33
34 infotype pop_103032300101(Stack &s) {
35     if (s.top != -1) {
36         infotype x = s.info[s.top];
37         s.top--;
38         return x;
39     } else {
40         cout << "Stack kosong" << endl;
41         return 0;
42     }
43 }
44
45 void printInfo_103032300101(Stack s) {
46     int i;
47     if (s.top != -1) {
48         for (i = s.top; i > -1; i--) {
49             cout << s.info[i];
50         }
51     } else {
52         cout << "Stack Kosong" << endl;
53     }
54     cout << endl;
55 }
56
```

Main.cpp

Made Naradeon Handika Pramesta
103032300101

```
main.cpp X stack.h X stack.cpp X
1  #include <iostream>
2  #include "stack.h"
3
4  using namespace std;
5
6  int main()
7  {
8      Stack s;
9      infotype input;
10     int i = 4;
11     createStack_103032300101(s);
12     cin >> input;
13     while (input != '.') {
14         push_103032300101(s, input);
15         cin >> input;
16     }
17     cout << endl << "isi stack awal" << endl;
18     printInfo_103032300101(s);
19     while (i > 0) {
20         input = pop_103032300101(s);
21         i--;
22     }
23     cout << endl << "isi stack sesudah di pop" << endl;
24     printInfo_103032300101(s);
25     return 0;
26 }
```

Hasil

```
"D:\Kuliahbanget\Semester 3 Masa ga ip 4 lagi\STD KHS\TP\TP
GNUD NABOLAH.

isi stack awal
HALOBANDUNG

isi stack sesudah di pop
BANDUNG

Process returned 0 (0x0)   execution time : 2.693 s
Press any key to continue.
```