

## Readme file

1) To execute the code, you need to have 2 files:

1) stack.h is a header file where all class function declarations are made.

2) CPP file is where all the functions and function implementations are made.

I also have a MAIN function inside the CPP file.(That is where the function implementations are made)

2) The code will prompt the user to write the infix notation mathematic expression containing only numbers and these symbols +, -, \*, %, /, {, }, [, ], (, ). If the user puts any other symbols, the program will output 'Invalid input' and terminate.

```
semne77@Tsyrenovs-MacBook-Air-2 StackInfix % cd "/Users/semne77/Assignment 3/StackInfix/" &&
g++ stack.cpp -o stack && "/Users/semne77/Assignment 3/StackInfix/"stack
stack.cpp:43:17: warning: range-based for loop is a C++11 extension [-Wc++11-extensions]
    for (char c : infix) {
                ^
stack.cpp:90:17: warning: range-based for loop is a C++11 extension [-Wc++11-extensions]
    for (char c : expression) {
                ^
2 warnings generated.
Enter an infix expression: 23*(3+4)
Postfix expression: 2334+*
semne77@Tsyrenovs-MacBook-Air-2 StackInfix %
```

3)the code also checks if the parentheses are balanced. If they are not the program will output 'Invalid input' and terminate.

```
semne77@Tsyrenovs-MacBook-Air-2 StackInfix % cd "/Users/semne77/Assignment 3/StackInfix/" &&
g++ stack.cpp -o stack && "/Users/semne77/Assignment 3/StackInfix/"stack
stack.cpp:43:17: warning: range-based for loop is a C++11 extension [-Wc++11-extensions]
    for (char c : infix) {
                ^
stack.cpp:90:17: warning: range-based for loop is a C++11 extension [-Wc++11-extensions]
    for (char c : expression) {
                ^
2 warnings generated.
Enter an infix expression: 23*(3+4cd "/Users/semne77/Assignment 3/StackInfix/" && g++ stack.
cpp -o stack && "/Users/semne77/Assignment 3/StackInfix/"stack
Invalid expression (unbalanced parentheses)
semne77@Tsyrenovs-MacBook-Air-2 StackInfix %
```