The infix expression convert to a postfix expression:

1: read a character, the character can be numbers, operations, space, brace and new line

2: (1) if the character is number, the push it to the result Stack and immediately read the next character and push until it is not a num.

(2) if the character is space, ignore it.

(3) if the character is left brace, just put it in the operation Stack.

(4) if the character is operation, put it in the operation Stack.

(5) if the character is right brace, pop the character from the operation Stack and push it into the result Stack until it is an left brace.

(6) if the character is new line, pop the character from the operation Stack until the stack is empty.

3: Now the result is in the result Stack.

4: about the minus sign and the negative sign, by using a Boolean to determine.