

## infix to Postfix Algorithm

- 1) Push (onto stack, and add) to the end of  $x$ .
- 2) Scan  $x$  from left to right and repeat step 3 to 6 for each element of  $x$  until the stack is empty.
- 3) If an operand is encountered, add it to  $Y$ .
- 4) If a left parenthesis is encountered, push it onto stack.
- 5) If an operator is encountered, then:
  - 1) Repeatedly pop from stack and add to  $Y$  each operator (on the top of stack) which has the same precedence as or higher precedence than operator.
  - 2) Add operator to stack.[End of If]
- 6) If a right parenthesis is encountered, then:
  - 1) Repeatedly pop from stack and add to  $Y$  each operator (on the top of stack) until a left parenthesis is encountered.
  - 2) Remove the left parenthesis.[End of If]  
[End of If]
- 7) End.