

More practice with stacks...

How can we use a stack to evaluate a **prefix** expression? Here are some examples:

$+ 2 3$

$+ - 2 3 4$

$+ 2 - 3 4$

Infix to postfix ☺ Let's try some examples to motivate a general approach.
When reading the infix expression, determine what needs to be pushed & popped.

Infix expression	Postfix expression
1 + 2	
1 + 2 - 3	
1 + 2 - 3 + 4	
1 + 2 * 3	
1 * 2 + 3	

$1 * 2 / 3 + 4 - 5$	
$1 + 2 * 3 - 4$	
$(1 + 2) * 3$	
$2 - (3 - (4 - 5 * 6) + 7) * 8$	
$1 - 2 - 3$	
$1 - (2 - 3)$	