

## Homework #2

0	
1	&&
2	< <= == > >= !=
3	+ -
4	* / %
5	!

Consider the precedence levels of the relational operators, logical operators, and the arithmetic operators in our Biola language as depicted above. Read the online documents about the [infix-postfix conversion](#) and the [postfix evaluation](#) first and then do (i) to (v) in the following.

Go through the steps in [infix-postfix conversion](#) to convert the following two infix expressions into their corresponding postfix expressions:

- i.  $1 + 2 * 3 - 4 / 2$
- ii.  $5 + 6 * (4 - 3) / (2 + 1)$

Go through the steps in [postfix evaluation](#) to evaluate the following two postfix expressions:

- iii.  $5.0 \quad 3.0 \quad 7.0 \quad 4.0 \quad 1.0 \quad 2.0 \quad + \quad / \quad - \quad * \quad +$
- iv.  $1.0 \quad 2.0 \quad 3.0 \quad * \quad + \quad 4.0 \quad 2.0 \quad / \quad -$

Convert the following infix expression into the corresponding postfix expression, and then evaluate it. Show both the postfix expression you got and the result of the postfix evaluation.

- v.  $1 + 2 * 6 < 4 * 3 - 5 \ \&\& \ 7 \ != \ 8$