

Test – Group 924

Test duration is 60 minutes.

Please implement in Java a mini-interpreter for the following expressions:

- Implication: `exp1 IMPL exp2`
- ExclusiveOR: `exp1 XOR exp2`
- negation: `NOT(exp)`
- numbers: 0, 1 where 0 stands for FALSE and 1 stands for TRUE

Please use MVC architectural pattern and OO techniques(interfaces or abstract classes, overriding, inheritance, generics) in a similar manner to what we have done at the previous seminars and labs. The inputs are coded in the main method.

Examples:

0 IMPL 1 evaluates to 1

1 IMPL 1 evaluates to 1

1 IMPL 0 evaluates to 0

0 IMPL 0 evaluates to 1

0 XOR 1 evaluates to 1

1 XOR 1 evaluates to 0

1 XOR 0 evaluates to 1

0 XOR 0 evaluates to 0

(0 XOR 1) IMPL (1 XOR 1) evaluates to 0

NOT((0 XOR 1) IMPL (0 XOR 1)) evaluates to 0