Lab: Stacks

Problem definition:

Most humans prefer to read and write mathematical expressions in infix notation where the operator is written between the two operations, e.g. 2+3. On the other hand, computers deal better with postfix expressions where the operator is written *after* the two operands, e.g. 23+. In order to bridge this gap, you are required to write a function that uses the stack data structure to convert an infix expression into

expressions where the operator is written *after* the two operands, e.g. 23+. In order to bridge this gap, you are required to write a function that uses the stack data structure to convert an infix expression into postfix. For example, if the input is "2+3", the output is "23+". If the input is "A+B*C", the output is "ABC*+". For more details, check section 3.6 in the textbook.

Detailed requirements

- The input is provided as a single Java String
- The output is also a single Java string
- The operators you need to consider
 +, -, *, /, %, (,)
- The operands are either single-digit numbers (0-9) or single-letter characters (a-z, A-Z)
- Parentheses () have the highest priority, then multiplication and division, then finally addition and subtraction
- You do NOT need to evaluate the expression; you only need to return the postfix expression