

1. Write a java program to take a postfix expression (string) as input.
 - a. Identify the operators and operands [4]
 - b. Using stack evaluate the expression. [6]
- Assume there is always a space between operators and operands
 - 12 is evaluated as twelve and 1 2 is evaluated as two operands one and two.
 - Assume the all the operands are numeric
- Use +,-,*,/ as operators any other token is an operand
- You can use the stack class.

Sample Input:

5 3 + 12 * 3 /

8 3 * 12 / 3 +

8 12 3 / * 10 2 / -

Sample Output:

- a. Operators: + * /; Operands: 5 3 12 3
- b. Result: 32

- a. Operators: * / +; Operands: 8 3 12 3
- b. Result: 5

- a. Operators: / * / -; Operands: 8 12 3 10 2
- b. Result: 27

For part B:

1. Tokenize the string
2. If not operator
 - a. Push in stack
3. If operator (op=operator)
 - a. Pop stack and store in 'b'
 - b. Pop stack and store in 'a'
 - c. Push a op b
4. Repeat 2,3 until more tokens