

Stack and its Application

1. Write a program to implement a Stack class (use a Array to store the elements of the stack). [Implement Stack Overflow and Underflow by user defined Exception]. Write a method to check two stack are carrying similar elements or not.(Repetition of the elements are not consider)
2. Write a method in a separate class to check an expression is valid or not.
3. Write a method in a separate class to evaluate a postfix expression (Consider more than single digit number as a input).
4. Write a method in a separate class to evaluate a prefix expression. (Consider more than single digit number as a input)
5. Write a method in a separate class to convert an infix expression to its corresponding postfix expression.
6. Write a method in a separate class to convert an infix expression to its corresponding prefix expression.

Note:

- Programs must be written using Java Language.
- Implement the Question No 2 to Question No 6 by your own Stack class.
- Do proper commenting so that it becomes easy for us to read your code.