```java
public static void main(String[] args)
                                throws StackEmptyException {
  LinkedStack numStack = new LinkedStack();
  LinkedStack opStack = new LinkedStack();

  for (int i = 0; i < args[0].length(); i++) {
    char c = args[0].charAt(i);
    if (Character.isDigit(c)) {
      System.out.print(c + "  ");
      numStack.push(new Integer(Character.digit(c, 36)));
    } else if ((c == '+') || (c == '−') || (c == '*') || (c == '^')) {

      while (!opStack.isEmpty() && (c != '^') &&
              (precedence(((Character) opStack.top()).
                          charValue()) >= precedence(c))) {
        char operator = ((Character) opStack.pop()).charValue();
        operate(numStack, operator);
      }
      opStack.push(new Character(c));
    }
  }

  while (!opStack.isEmpty()) {
    char operator = ((Character) opStack.pop()).charValue();
    operate(numStack, operator);
  }

  System.out.println("  result:" + numStack.top());
}
```