Tuesday, April 10

No Warmup

Postfix Expression assignment - due

    public static String evaluate(String expression)
    Copy from ~katz162/labs/postfix
    Develop this incrementally

Token
    knows about operators and numbers
    Token t. t.isOperator( )
    TokenScanner ts = new TokenScanner(expression);
    ts.hasNext();
    Token t = ts.nextToken( );
    Stack<Double> s = new Stack<Double>( );
    s.push(t); // may have to turn t into a number (numberValue( )
    if (t.isOperator( )){
        // apply the operator - build a private method
        try {
            // code that may throw exceptions
        }
        catch (/*exception1*/){
            // what to do about exception1
        }
        catch (/*exception2*/){
            // what to do about exception2
        }
    }
    char op = operator.charValue( )
    if (op == '+') {
        pop right
        pop left
        (may throw stack underflow)
        switch (op)
        {
            case '+':
                answer = left + right;
                break;
            case '-':
                answer = left - right;
                break;
            ...
        }
        s.push(answer)

Test Review
Other things