**Lab Goal**: This lab was designed to teach you more about stacks.

**Lab Description:** Read in a group of symbols and check to see if the appropriate opening symbol correctly matches up with the appropriate closing symbol.

The opening symbols are "{ (< [" and the appropriate closing symbols are "}) > ]".

You must read in and analyze each group.

If you were to read in { [] }, you would have a correct balance of opening and closing symbols.

If you were to read in { [ } ] , you would not have a correct balance of opening and closing symbols.

## Sample Data:

```
(abc(*def)
[{}]
[
[{<()>}]
{<html[value=4]*(12)>{$x}}
[one]<two>{three} (four)
car(cdr(a)(b)))
car(cdr(a)(b))
```

## Files Needed::

SyntaxChecker.java SyntaxCheckRunner.java

## Sample Output:

```
(abc(*def) is incorrect.

[{}] is correct.

[ is incorrect.

[{<()>}] is correct.

{<html[value=4]*(12)>{$x}} is correct.

[one]<two>{three}(four) is correct.

car(cdr(a)(b))) is incorrect.

car(cdr(a)(b)) is correct.
```

## algorithm help

```
while there are more values in the expression
{
    get a value from the input
    if you have an opening symbol
        push it on the stack
    else if it is a close symbol
        if the stack is not empty
        pop a value
        check for a match with the current close symbol
        else
            stop the process and mark the expression as bad
}
make sure nothing is left in the stack
```