

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
Lab13b.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
```