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csu.csci325

Class ConvertExp

java.lang.Object

csu.csci325.ConvertExp

```
public class ConvertExp
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

[ConvertExp\(\)](#)

Method Summary

All Methods Static Methods Concrete Methods

Modifier and Type	Method and Description
static boolean	isOperator (java.lang.String s) This method expects a string of length 1 and determines if the string is one of the following operators +, -, *, or /
static java.lang.String	postToInfix (java.lang.String exp) This method uses a stack to convert a postfix expression to an infix expression, for example, abc++ will be converted to (a+(b+c)).
static java.lang.String	preToInfix (java.lang.String exp) This method uses a stack to convert a prefix expression to an infix expression, for example *+AB-CD will be converted to ((A+B)*(C-D)).

Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll,  
toString, wait, wait, wait
```

Constructor Detail

ConvertExp

```
public ConvertExp()
```

Method Detail

isOperator

```
public static boolean isOperator(java.lang.String s)
```

This method expects a string of length 1 and determines if the string is one of the following operators +, -, *, or /

Parameters:

s - String to test.

Returns:

true if the string is +, -, *, or /, otherwise returns false

preToInfix

```
public static java.lang.String preToInfix(java.lang.String exp)
```

This method uses a stack to convert a prefix expression to an infix expression, for example `*+AB-CD` will be converted to `((A+B)*(C-D))`.

Parameters:

exp - prefix string to convert e.g., `*+AB-CD`

Returns:

String converted to infix notation e.g., `((A+B)*(C-D))` or null if the prefix string is malformed

postToInfix

```
public static java.lang.String postToInfix(java.lang.String exp)
```

This method uses a stack to convert a postfix expression to an infix expression, for example, abc++ will be converted to (a+(b+c)).

Parameters:

exp - postfix string to convert e.g., abc++

Returns:

String converted to infix notation e.g., (a+(b+c)), or null if the prefix string is malformed

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