

Class main

java.lang.Object
main

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

Program for generating llvm code from mathematical expressions.

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Nested Class Summary

Nested Classes

Modifier and Type	Class and Description
static class	main.Container Class for containers that contains values, numbers or registers.

Field Summary

Fields

Modifier and Type	Field and Description
static int	counter
static int	linee
static java.util.ArrayList<main.Container>	variables
static java.io.BufferedWriter	w

Constructor Summary

Constructors

Constructor and Description
main()

Method Summary

All MethodsStatic MethodsConcrete Methods

Modifier and Type	Method and Description
static boolean	ContainsVar (java.lang.String x) Determines whether variables arraylist contains given variable.
static main.Container	evaluate (java.util.ArrayList<java.lang.String> exp) Evaluates the expression, writes the llvm line.

static main.Container	findC (java.lang.String s) Finds container object that matches the string
static java.util.ArrayList<java.lang.String>	infToPos (java.lang.String[] str) Takes infix string array and returns postfix string arraylist.
static boolean	isNumber (java.lang.String s)
static boolean	isSign (java.lang.String s) Determines whether given string is a sign or not.
static void	main (java.lang.String[] args)
static int	pri (java.lang.String c) Determines the priority of the operation.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

w

public static java.io.BufferedWriter w

variables

public static java.util.ArrayList<main.Container> variables

counter

public static int counter

linee

public static int linee

Constructor Detail

main

public main()

Method Detail

pri

public static int pri(java.lang.String c)

Determines the priority of the operation.

Parameters:

c - Is the character.

Returns:

Priority of the character.

infToPos

```
public static java.util.ArrayList<java.lang.String> infToPos(java.lang.String[] str)
```

Takes infix string array and returns postfix string arraylist.

Parameters:

str - String that is going evaluated to postfix notation

Returns:

Postfix notation

findC

```
public static main.Container findC(java.lang.String s)  
                                throws java.io.IOException
```

Finds container object that matches the string

Parameters:

s - Name of the (or number) variable.

Returns:

variable as Container object.

Throws:

java.io.IOException - if variable is undefined.

isSign

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

Determines whether given string is a sign or not.

Parameters:

s - string object

Returns:

true if it's a sign.

isNumber

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

evaluate

```
public static main.Container evaluate(java.util.ArrayList<java.lang.String> exp)  
                                throws java.io.IOException
```

Evaluates the expression, writes the llvm line.

Parameters:

exp - Expression arraylist line.

Returns:

returns evaluated register.

Throws:

java.io.IOException - if file does not exist.

ContainsVar

```
public static boolean ContainsVar(java.lang.String x)
```

Determines whether variables arraylist contains given variable.

Parameters:

x - Variable name.

Returns:

true if variable is in the variables arraylist.

main

```
public static void main(java.lang.String[] args)
    throws java.io.IOException
```

Parameters:

args - input and output file.

Throws:

java.io.IOException - if output file is corrupted.

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