My inplemention of Simple Calculator

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Calculation:

Statement

Calculation Statement

Statement:

Assignment

Declaration

Expression

Expression M (MR)

Assignment:

Name(declared) = Expression

Declaration:

let Name = Expression

Expression:

Term

Expression + Term

Expression - Term

Term:

Junior

Term \* Junior

Term / Junior

Term % Junior

Junior:

Primary

Junior ^ Primary

Primary:

abs (Primary)

sin (Primary)

cos (Primary)

tan (Primary)

ln (Primary)

Number

Number !

Number !!

(Expression)

(Expression) !

(Expression) !!

Variable

Variable !

Variable !!

- Primary

+ Primary

Variable:

Declared Name

Number:

floating-point-literal

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支持加减乘除，取余，阶乘与双阶乘运算

支持变量功能

支持MR功能（内部用变量功能实现）

Case1:变量功能实例

Input : x=1 //不允许给未声明变量赋值

Output : x hasn’t been declared

Input : let x=1 //声明变量x，并赋值为1

Output : 1

Input : ((x+1)\*2)!!

Output : 8

Input : let x=1 //不允许重复声明·

Output : Declared Twice

Input : x=2 // 将已声明的变量x，赋值为2

Output : 2

Case2：MR功能实例

Input : 3+4^2M //expression+M

Output : 19 //输出expression的值，并将该值赋值给变量R

Input : 3+R

Output : 22