

# 说明文档

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## 功能

本计算器程序实现基本的算术表达式的运算并返回结果

## 目前已支持的运算

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### 1. 加运算+

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```
Welcome to Calcuclator
Please enter an equation: 2+3
5.0
Please enter an equation: (2+7)+5
14.0
Please enter an equation: 
```

### 2. 减运算-

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```
Welcome to Calcuclator
Please enter an equation: 2-3
-1.0
Please enter an equation: 4-1
3.0
Please enter an equation: 13+(3234-230)
3017.0
Please enter an equation: 
```

### 3. 乘运算\*

---

```
Welcome to Calcuclator
Please enter an equation: 3245*234
759330.0
Please enter an equation: 2/(2*3)
0.3333333333333333
Please enter an equation: 
```

### 4. 除运算/

---

```
Welcome to Calcuculator
Please enter an equation: 3/4
0.75
Please enter an equation: 5/6
0.8333333333333334
Please enter an equation: (-1)/2
-0.5
Please enter an equation: (-10)/100
-0.1
Please enter an equation: 
```

## 5. 求模运算%

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```
Welcome to Calcuculator
Please enter an equation: 5%2
1.0
Please enter an equation: 101%10
1.0
Please enter an equation: 
```

## 6. 乘方运算^

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```
Welcome to Calcuculator
Please enter an equation: 5^2
25.0
Please enter an equation: 5^2*2
50.0
Please enter an equation: 5+6^2
41.0
Please enter an equation: 2^10
1024.0
Please enter an equation: 
```

## 负数运算()

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只需在负数外层加一对括号

```
0.5
Please enter an equation: (-1)/2
-0.5
Please enter an equation: (-10)/100
-0.1
Please enter an equation: (-1)+3+(-2)*2-2
-4.0
Please enter an equation: 
```

## 复杂运算

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```
Please enter an equation: (-1)+3+(-2)*2-2
-4.0
Please enter an equation: ((2+3)*2-5)*5^2
125.0
Please enter an equation: 12-(211-233)
34.0
Please enter an equation: ^[
```

## 错误字符串识别

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本程序具有强大的错误识别功能

```
Welcome to Calcuclator
Please enter an equation: (12+3))
Wrong Input
Please enter an equation: ((23+24)
Wrong Input
Please enter an equation: 12+
Wrong Input
Please enter an equation: 12+23-12/
Wrong Input
Please enter an equation: /34+12
Wrong Input
Please enter an equation: 123
Wrong Input
Please enter an equation: (123)
Wrong Input
Please enter an equation: )123
Wrong Input
Please enter an equation: +/-
Wrong Input
Please enter an equation: 
Welcome to Calcuclator
Please enter an equation: 12+-12
Wrong Input
Please enter an equation: (+12-2)
Wrong Input
Please enter an equation: 
```

本程序运用中缀转后缀表达式

## BUG

由于使用中文符号引发的bug  
(目前仍未解决)