

InfyTQ SET 003Solved Challenges **2/5**[Back To Challenges List](#)**Evaluate Expression****ID:10574 Solved By 247 Users****InfyTQ**

The program must accept a string **S** representing a mathematical expression as the input. The program must evaluate and print the result **R** as the output.

Input Format:

The first contains S.

Output Format:

The first line contains an integer representing the result R.

Example Input/Output 1:

Input:

$((4+6)*(15/5))+100$

Output:

130

Example Input/Output 2:

Input:

$(10/3)*(5+4)$

Output:

30

Example Input/Output 3:

Input:

$100-(12/5)$

Output:

97

Max Execution Time Limit: 500 millisecs

Python3 (3.x)



[Reset](#)

```
1 Str = input().strip()
2 Str+="."
3
4 S=[]
5 index=0
6 num=""
7 while(index<len(Str)):
8     sym=Str[index]
9     if((Str[index]>="0" and Str[index]<="9")):
10         num+=Str[index]
11     else:
12         if(num!=""):
13             S.append(num)
14             S.append(sym)
15             num=""
16         index+=1
17
18 # print(S)
19
20 stack = []
21 exp=""
22 for sym in S:
23     if(sym=="("):
24
25         while (stack[-1]!="("):
26             exp+=stack.pop()
27             stack.pop()
28
29         # print(exp)
30         ans = eval(exp)
31         if("/" in exp):
32             ans = 1/ans
33         if("-" in exp):
34             ans = -ans
35         # print(ans)
36
37         stack.append(str(ans))
38         ans=0
39         exp=""
40         # print(stack)
41         continue
42     stack.append(sym)
43     # print(stack)
44
45 fi=""
46 for final in stack[::-1]:
47     fi+=final
48
49 print(int(eval(fi)))
50
51
```

Code did not pass the execution

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Your Program Output:

```
[ '('  
[ '(', '541'  
[ '(', '541', '-'  
[ '(', '541', '-', '('  
[ '(', '541', '-', '(', '1523'  
[ '(', '541', '-', '(', '1523', '/'  
[ '(', '541', '-', '(', '1523', '/', '53'  
[ '(', '541', '-', '28.735849056603772'  
[ '512.2641509433962'  
[ '512.2641509433962', '+'  
[ '512.2641509433962', '+', '('  
[ '512.2641509433962', '+', '(', '7'  
[ '512.2641509433962', '+', '(', '7', '*'  
[ '512.2641509433962', '+', '(', '7', '*', '1245'  
[ '512.2641509433962', '+', '8715'  
[ '512.2641509433962', '+', '8715', '+'  
[ '512.2641509433962', '+', '8715', '+', '('  
[ '512.2641509433962', '+', '8715', '+', '(', '5361'  
[ '512.2641509433962', '+', '8715', '+', '(', '5361', '/'  
[ '512.2641509433962', '+', '8715', '+', '(', '5361', '/', '323'  
[ '512.2641509433962', '+', '8715', '+', '16.597523219814242'  
[ '512.2641509433962', '+', '8715', '+', '16.597523219814242', '.']  
9243
```

Save

Run

☐ Run with a custom test case (Input/Output)