

Sphere online judge

Log Out
luishpmendes

my account
tutorials

status
submit
problems
search
ideone.com

news
contests
ranks

forum
comments
tools
clusters
credits
jobs

Server time:
2014-08-29
16:14:07

Submit

My submissions

All submissions

Best solutions

PS

PDF

Back to list

30

Lubię to!

Udostępnij

SPOJ Problem Set (classical)

11

4. Transform the Expression

8+1

Problem code: ONP



WebMotors

Fiat revela imagens do novo Uno...



+96

7

11

Hover to Expand

Transform the algebraic expression with brackets into RPN form (Reverse Polish Notation). Two-argument operators: +, -, *, /, ^ (priority from the lowest to the highest), brackets (). Operands: only letters: a,b,...,z. Assume that there is only one RPN form (no expressions like a*b*c).

Input

t [the number of expressions <= 100]
expression [length <= 400]
[other expressions]

Text grouped in [] does not appear in the input file.

Output

The expressions in RPN form, one per line.

Example

Input:
3
(a+(b*c))
((a+b)*(z+x))
((a+t)*((b+(a+c))^(c+d)))

Output:
abc*+
ab+zx+*
at+bac++cd+^*

Added by: Michał Małafiejski
Date: 2004-05-01
Time limit: 5s
Source limit: 50000B
Memory limit: 256MB
Cluster: Pyramid (Intel Pentium III 733 MHz)
Language: ..
Resource: Time for a new job?

hide comments

Previous

1

2

3

Next >

2014-08-22 08:53:47 **Gaurav Ahirwar**
Xtremely Simple logic! ..just give it a try! :)

2014-08-21 14:57:49 **Emanuele Paolini**
I think that for clarification the expression a-b+c-d should be added to the examples. Priority of operators is not shown in any example.

2014-01-28 10:02:35 **Shatha Abu Hashem**
Ugh .. I Just cannot find the algorithm .. it drives me crazy

2013-12-25 17:54:00 **Bowen**
"+, -, *, /, ^ (priority from the lowest to the highest)"
does - have higher precedence than + or are they the same? also with * and /?

2013-12-12 07:55:21 **Duan Yichao**
Write some more expressions yourself and try.

2013-08-28 19:54:59 **Mayank Raj**
Actually everything is bracketed...I coded to look only for the braces!!

2013-08-06 08:24:01 **Franz Matejka**
Suggestion: Add to problem statement that the algorithm just needs to work with fully bracketed expressions.

2013-07-09 18:19:53 **(Tjandra Satria Gunawan)(曾毅昆)**

0.05s in Brainf**k ;-)

2013-02-13 15:04:40 [Piotr Findeisen](#)

Need better test: my accepted solution works incorrectly for:

```
1
a*b+c
```

Leave a Comment

Publish

Notes:

1. Don't post any source code here.
2. Please be careful, leave short comments only. Don't spam here.
3. For more discussion (hints, ideas, solutions) please visit our [forum](#).
4. Authors of the problems are allowed to delete the post and use html code here (e.g. to provide some useful links).

[About SPOJ](#)

width: 900 1024 Full theme: olive banana plum hspl

[#spoj at freenode](#)

 [RSS](#)

© Spoj.com. All Rights Reserved. Spoj uses **Sphere Engine™** © by **Sphere Research Labs**