2139 - I2P(II)2020_Chen_week6_HW Scoreboard



Clarification						
# Problem	Asker	Description	Reply	Replier	Reply Time	For all team

Overview

Problem **▼**

12395 - Storm Area 51

| ______

Status | Limits Submit

Register

Description

An fandom anime opening of Area51 Raid event.

If we naruto run, we can move faster than their bullets.

Unknown naruto runner

military base "Area 51" on Sep. 20, 2019. In this event, participants are asked to use naruto run to intrude Area 51 so that they can move faster than their bullets.

However, performing naruto run challenges the control of Chakra(查克拉) of the runner. They have to control the

"Storm Area 51, They Can't Stop All of Us" is an event that invites everyone to intrude into the famous America

flow of Chakra and distribute it appropriately so that they could be able to run steadily.



On every step, a pre-order binary expression and some values would cross runners' mind. Runners needs to

rearrange the binary expression into in-order and calculate the answer of this expression, so that they can naruto run steadily and dodge those bullets.

You are an adviser of this event. Somehow you can read the runners' mind and tell them the answers of these

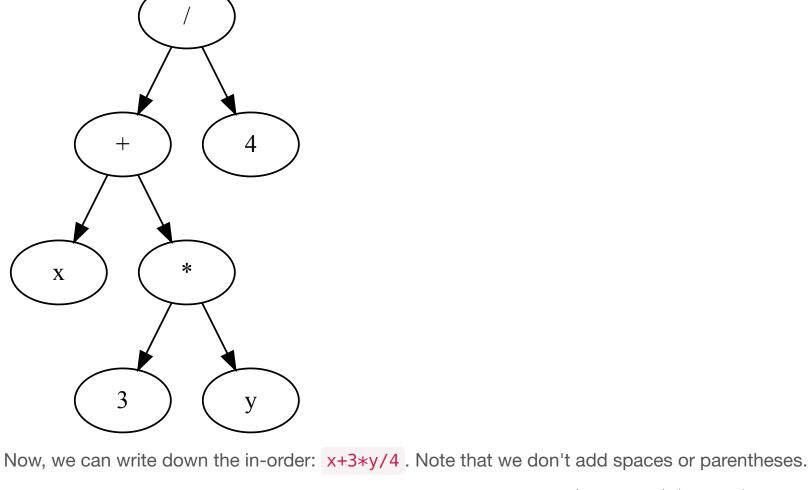
expressions. You're going to write a program to help them, otherwise they will be hit by bullets.

Because naruto run is a simple ninjutsu(忍術), the expression won't be too complicated, so the variables in an

expression won't exceed 3(x,y,z). And we don't care about the parentheses.

We use the pre-order binary expression the build a syntax tree, the tree should look like the following graph:

Take the sample as example:



And we know that x=3,y=1,z=9, then calculate the answer: (3+3*1)/4=6/4=1.

Note that we only pick the integer part to calculate.

Input

The first line contains the whole expression in pre-order. The length of the input string wouldn't exceed 100.

The input expression would contain:

variable (x, y, z)
 operator (+, -, *, /)

- operator (+, -, *, /)
 integers in range [1, 100]
- The second line contains three integers represent $x,\,y,\,z,$ respectively.

 $1 \le x, y, z \le 100$. You don't have to worry about overflow or underflow. Note that there will be a space after every operator, number, and variable. Please refer to the sample.

Output

On the first line, output the expression in in-order. There should be no space between every operator, number, and variable.

On the second line, output the result of this expression.

Sample Input Download

/ + x * 3 y 4

3 1 9

Sample Output

Download

x + 3*y/4

Tags

Discu

Contact us: nthucsoj@gmail.com