

Boolean String Value

Given a string consisting of only 0, 1, A, B, C where

A = AND

B = OR

C = XOR

Calculate the value of the string assuming no order of precedence and evaluation is done from left to right.

Examples:

Input :

1A0B1

Output : 1

1 AND 0 OR 1 = 1

Input :

2

1C1B1B0A0

1A0B1

Output :

0

1