DMOPC '17 Contest 5 P1 - IOI 101

The number 1 looks quite similar to the letter 1 and the letter 1. Similarly, the number 0 looks quite similar to the letter 0. Sometimes, these simple replacements are used in passwords.

Roger is reviewing his passwords one day, and realizes that he no longer remembers what letters he replaced with numbers! Alarmed, he pulls up the following table:

Number	Letter
0	0
1	l
3	E
4	А
5	S
6	G
8	В
9	g

Given a string of alphanumeric characters, can you write a program to perform these replacements?

Constraints

The given string will contain no more than $1\,000\ \text{characters}\,.$

Input Specification

The first and only line of input will contain a single string of alphanumeric characters.

Output Specification

The output should have a single string: the result of performing all the replacements on the string given in the input.

Sample Input

y0105w49

Sample Output

y0l0SwAg