

B. Borze

time limit per test

2 seconds

memory limit per test

256 megabytes

input

standard input

output

standard output

Ternary numeric notation is quite popular in Berland. To telegraph the ternary number the Borze alphabet is used. Digit 0 is transmitted as «.», 1 as «- .» and 2 as «- -». You are to decode the Borze code, i.e. to find out the ternary number given its representation in Borze alphabet.

Input

The first line contains a number in Borze code. The length of the string is between 1 and 200 characters. It's guaranteed that the given string is a valid Borze code of some ternary number (this number can have leading zeroes).

Output

Output the decoded ternary number. It can have leading zeroes.

Examples

input

```
.-.-
```

output

```
012
```

input

```
-..
```

output

```
20
```

input

```
-.-.--
```

output

```
1012
```