Secret Message

You want to exchange some secret messages between you and your friends, so you decide to encode them using a simple but yet powerful rule: **n{encoded_text}**, where the **encoded_text** in the curly brackets is repeated exactly **n** times.

Your job is to write a program which decodes the messages. Examine the sample tests below.

Input

- Read from the standard input
- On the single line you will find the encoded message

Output

- Print to the standard output
- On the single line print the decoded message

Contraints

- `1 <= n <= 100`
- **encoded_text** contains only small letters from **"a"** to **"z"**

Sample tests

Input

```
4{a}2{xz}
```

Output

```
aaaaxzxz
```

Input

```
2{z10{xy}}
```

Output

```
zxyxyxyxyxyxyxyxyxyxyzxyxyxyxyxyxyxyxyxyxy
```

Input

```
a3{cd2{a}f}ef
```

Output

```
acdaafcdaafcdaafef
```