

Better Passwords

Byang is creating an account on Toph. He needs your help to create a strong password. Byang will give you a word, and you will need to make the following changes to the word to

make it a stronger password:

- Make the first character an uppercase
- Replace all **s** with **\$**
- Replace all **i** with **!**
- Replace all **o** with **()**
- Append a **.** (period) at the end of the password

Input

The input will contain a string *A* ($0 < \text{Length of } A < 16$). *A* will contain lowercase alphabets only.

Output

Print the better password after applying all the necessary changes to the original word *A*.

Input	Output
unsophisticated	Un\$()ph!\$t!cated.