

inherited code

u inherited a piece of code that performs username validation for your company's website. The existing action works reasonably well, but it throws an exception when the username is too short. Upon review, u realize that nobody ever defined the exception.

e inherited code is provided for you in the locked section of your editor. Complete the code so that, when an exception is thrown, it prints **Too short: N** (where N is the length of the given username).

put Format

e first line contains an integer, T , the number of test cases.
ch of the T subsequent lines describes a test case as a single username string, U .

nsstraints

- $1 \leq T \leq 1000$
- $1 \leq |U| \leq 100$
- The username consists only of uppercase and lowercase letters.

itput Format

u are not responsible for directly printing anything to stdout. If your code is correct, the locked stub code in your editor will print either **Valid** (if the username is valid), **Invalid** (if the username is invalid), or **Too short: N** (where N is the length of the too-short username) on a new line for each test case.

imple Input

```
3
Peter
Me
Arxwwz
```

imple Output

```
Valid
Too short: 2
Invalid
```

planation

ername **Me** is too short because it only contains **2** characters, so your exception prints **Too short: 2**.
other validation is handled by the locked code in your editor.