## Valid Usernames

Write a program which **reads usernames** on a **single** line (separated by **", "**) and **prints** all **valid usernames** on separate lines.

A valid username:

* has **length** between 3 and 16 characters inclusive
* **contains** only letters, numbers, hyphens, and underscores
* has **no redundant symbols** before, after or in between

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| sh, too\_long\_username, !lleg@l ch@rs, jeffbutt | jeffbutt |
| Jeff, john45, ab, cd, peter-ivanov, @smith | Jeff  John45  peter-ivanov |