## Problem 3 – SoftUni Forum

The SoftUni forum needs a new functionality – automatic generation of hypertext links to user profiles. The user names will be denoted by a **hashtag (‘#’)** in front of them. You need to find **all** matching user names and transform them as **anchor** tags. The most appropriate language for this task is, of course, JavaScript.

However, **only** valid user names should be rewritten as hyperlinks. A valid username:

* Starts with an English alphabet letter.
* May contain only alphanumeric characters, dashes or underscores.
* Must end with an alphanumeric character.
* Punctuation at the end of the username is not considered part of it. (Examples: **#RoYaL**: **#RoYaL**, **#RoYaL**! are treated as the username **RoYaL**)
* Is at least 3 characters long.

There is also a list of users **banned** from the forum. Links to their profiles should be **censored** with **asterisks (‘\*’)** equal to the username’s length. For example **#pesho** becomes **\*\*\*\*\***.

Finally, softuni users really like to paste long blocks of code. These special blocks are put inside **<code></code>** tags. In some languages, such as python, the **‘#’** symbol is used to mark a comment. You should **not** transform these comments as links to non-existing user profiles.

### Input

The input is passed to the first function found in your code as an array of **K** strings.

* The first **K – 1** strings represent a line from a forum post.
* The last string is a list of banned user names, separated by a **single** space.

### Output

The output consists of exactly **K – 1** lines.

* Valid usernames, such as **#RoYaL**, should be rewritten as links:

<a href=”/users/profile/show/RoYaL”>RoYaL</a>

* Banned users, such as #banned should be censored: **#banned => \*\*\*\*\*\***
* Invalid usernames, such as #**123**, or **#Asd\_golemiq\_** should be left as is.

### Constraints

* The forum post will be no longer than 20 lines and each lines is at maximum 60 characters long
* The ban list will have between 1 and 5 users.
* The # symbol can only be present at the beginning of a word.
* Allowed working time: 0.25 seconds. Allowed memory: 16 MB.

### Examples

|  |
| --- |
| **Input** |
| #RoYaL: I'm not sure what you mean,  but I am confident that I've written  everything correctly. Ask #iordan\_93  and #pesho if you don't believe me  <code>  #trying to print stuff  print("yoo")  </code>  pesho gosho |
| **Output** |
| <a href="/users/profile/show/RoYaL">RoYaL</a>: I'm not sure what you mean,  but I am confident that I've written  everything correctly. Ask <a href="/users/profile/show/iordan\_93">iordan\_93</a>  and \*\*\*\*\* if you don't believe me  <code>  #trying to print stuff  print("yoo")  </code> |