Flatten a list   X91996_en

Write a program that prints every given list flattened. For example, $[[[a]], b]$ flattened is $[a, b]$, and $[[a, b], [c, d]]$ flattened is $[a, b, c, d]$.

Define and use a recursive function

  flatten(*t*)

that flattens a list *t*.

Hint

Using the *ast* package, you can extract the list *t* encoded in a string *s* with *t* = *ast.literal_eval*(*s*).

Input

The input consists of several lists.

Output

Print every given list flattened.

Sample input	Sample output
| ```
[]
['a']
[['a']]
[[['a']]]
['a', 'b']
['a', []]
[[], 'a']
[['a'], 'b']
['a', ['b']]
[[['a']], 'b']
['a', [['b']]]
[['a', 'b'], ['c', 'd']]
``` | ```
[]
['a']
['a']
['a']
['a', 'b']
['a']
['a']
['a', 'b']
['a', 'b']
['a', 'b']
['a', 'b']
['a', 'b', 'c', 'd']
``` |

Problem information

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Generation : 2019-09-05 15:36:29