Find substrings containing an e-mail address

Cost: 8 | Solved: 122

Memory limit: 256 MBs

Time limit: 1 s

Input: input.txt

Output: output.txt

Task:

You are given a set of strings separated with line feed characters. Find the longest substrings that can be considered e-mail addresses.

An e-mail address consists of three parts: the name of the local part, an "@" character, the domain name of the server.

The local part name can contain latin letters, digits and underscore characters "_".

The server domain name consists of the name itself (digits, latin letters and dash symbols "-") and names of all other domain it belongs to, each separated with a period. The fully qualified domain name should not exceed 65 symbols.

In this task, we'll take the top-level domain as a string of latin letters from 2 to 4 (inclusively) characters long.

The local part name should be separated from the domain name with an "@" character.

Input:

A set of strings separated with line feed characters.

Output:

All the longest correct substrings in the order in which they appear in the text, separating each with a line feed character.

Example:

Input	Output
a@b.cde	a@b.cde
Va$ya123@shmail.ru	ya123@shmail.ru