**License Plates**

Your task is to write a program that accepts a list of allowed letters, a list of license plates and returns only those license plates that are valid.

A valid license plate is one that:

* Has a letter from the allowed letters at position 1
* Has a letter from the allowed letters at position 2
* Has a number at position 3
* Has a number at position 4
* Has a number at position 5
* Has a number at position 6
* Has a letter from the allowed letters at position 7
* Has a letter from the allowed letters at position 8

**Constraints**

* All license plates will be 8 characters long
* All license plates' letters will be uppercase

**Input**

The input data should be read from the console.

* On the first line there will be the allowed letters, separated by a comma.
* On the second input line there will be a single integer number N - the number of license plates you will have to validate.
* On the next N lines there are sequences there will be the license plates to validate.

*Note: The input data will always be valid and in the described format. There is no need to check it explicitly.*

**Output**

The output data should be printed on the console.

Print each valid license plate.

**Example**

**Input**

E,T,O,P,A,H,K,X,C,B,M

5

CH3604AC

CEOOO7TO

CC4140CC

HO1CCCBB

EK9ETTBE

### Output

CH3604AC

CC4140CC