### @ The Goal

MIME types are used in numerous internet protocols to associate a media type (html, image, video ...) with the content sent. The MIME type is generally inferred from the extension of the file to be sent.

You have to write a program that makes it possible to detect the MIME type of a file based on its name.

#### Rules

You are provided with a table which associates *MIME types* to file extensions. You are also given a list of names of files to be transferred and for each one of these files, you must find the *MIME type* to be used.

The extension of a file is defined as the substring which follows the last occurrence, if any, of the dot character within the file name.

If the extension for a given file can be found in the association table (case insensitive, e.g. TXT is treated the same way as txt), then print the corresponding  $MIME\ type$ . If it is not possible to find the  $MIME\ type$  corresponding to a file, or if the file doesn't have an extension, print UNKNOWN.

## Game Input

#### Input

Line 1: Number N of elements which make up the association table.

**Line 2**: Number **Q** of file names to be analyzed.

N following lines: One file extension per line and the corresponding MIME type (separated by a blank space).

of following lines: One file name per line.

#### **Output**

For each of the Q filenames, display on a line the corresponding MIME type. If there is no corresponding type, then display UNKNOWN.

#### **Constraints**

0 < N < 10000 0 < Q < 10000

- File extensions are composed of a maximum of 10 alphanumerical ASCII characters.
- MIME types are composed of a maximum 50 alphanumerical and punctuation ASCII characters.
- File names are composed of a maximum of 256 alphanumerical ASCII characters and dots (full stops).
- There are no spaces in the file names, extensions or MIME types.

#### **Example**

# Input

3
html text/html
png image/png
gif image/gif
animated.gif
portrait.png
index.html

#### Output

image/gif
image/png
text/html