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The Virtual Learning Environment for Computer Programming

## F002A. Infixes

Your task is to write a program that reads a sequence of words and prints, for each word, all the other words of the sequence contained in it.

Your program has to implement and use the function

> bool contains (string s1, string s2);
that returns if the word s1 contains the word s2 under the precondition that the length of $s 1$ is greater or equal than the length of $s 2$.
Forinstance, contains ("enlightenment", "light"), contains ("enlightenment", "enligh

```
contains ("enlightenment", "lighten") and
```

contains ("enlightenment", "ten") have to returntrue, but,however, contains ("enlighten
and contains ("enlightenment", "might") have to return false.

## Input

Input consists in a natural number $n$ followed by $n$ different words $p_{1}, \ldots, p_{n}$.

## Output

The program has to print a line for each $p_{1}, \ldots, p_{n}$ in this order. Each line starts with $p_{i}$, followed by the symbol ":" and the list of all the input words contained in $p_{i}$, in the same order than the input. Notice that the list corresponding to each $p_{i}$ always includes $p_{i}$, since every word contains itself.

## Sample input

```
9
lighten
in
o
en
building
light
build
enlightenment
world
```


## Sample output

```
lighten: lighten en light
in: in
o: o
en: en
building: in building build
light: light
build: build
enlightenment: lighten en light enlightenment
world: o world
```


## Problem information

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