Challenge

Spare Time Teaching

January 28, 2014

You may not add parameters or change the output.
Inspired by Olivier Danvy and Mayer Goldberg.

Problem

Write a function that, given two lists `(`x_1 x_2 `...` x_{n-1} x_n`)` and `(`y_1 y_2 `...` y_{n-1} y_n`)`, constructs `((`x_1 `.` y_n`) (`x_2 `.` y_{n-1}`) ...` `(`x_{n-1} `.` y_2`) (`x_n `.` y_1`))` in n recursive calls and with no auxiliary list.

Example

```
> (ch '(1 2 3) '(a b c))
((1 . c) (2 . b) (3 . a))
```