

61A Lecture 24

Wednesday, October 29

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- CS 61A flash mob Wednesday 3:03pm–3:09pm in Memorial Glade

Scheme

Scheme is a Dialect of Lisp

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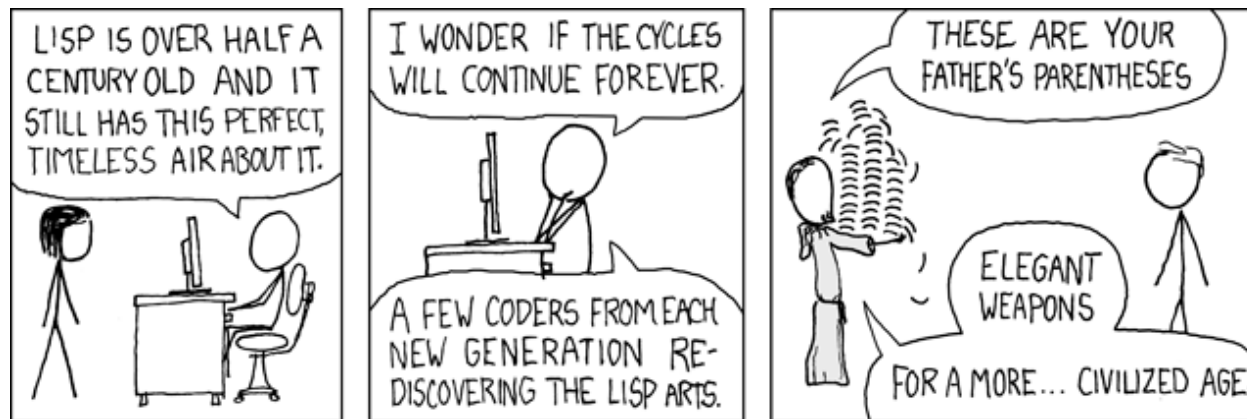
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http://imgs.xkcd.com/comics/Lisp_cycles.png

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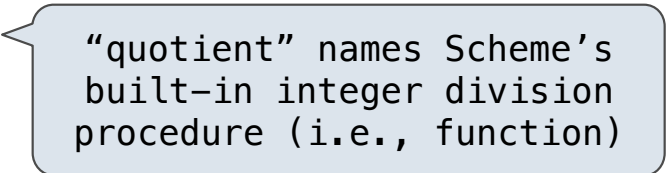
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(Demo)

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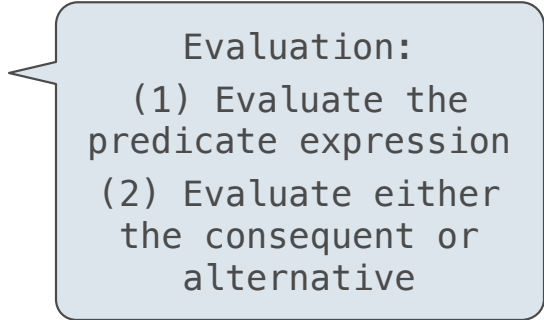
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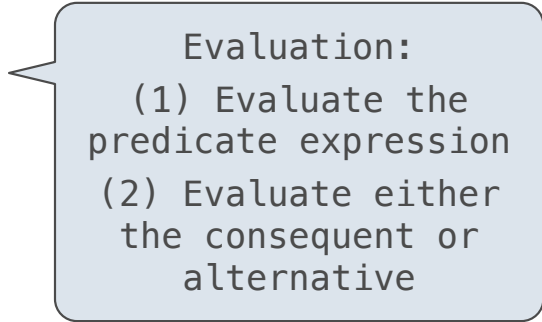


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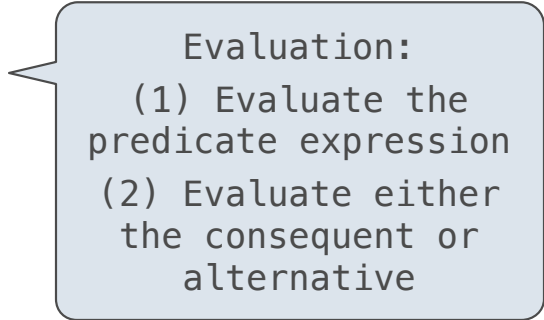


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Scheme Interpreters

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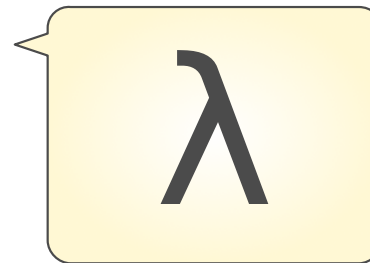
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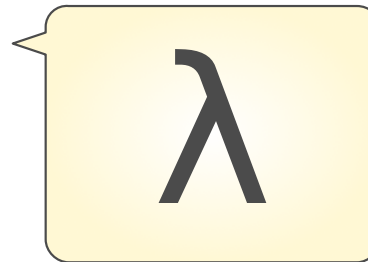
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Pairs and Lists

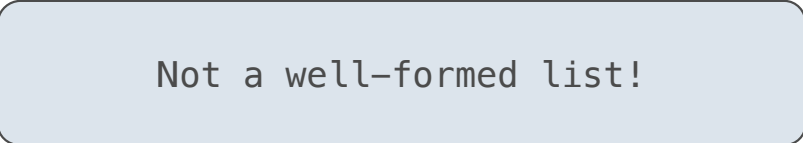
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Not a well-formed list!

(Demo)

Symbolic Programming

Symbolic Programming

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Symbols normally refer to values; how do we refer to symbols?

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Symbols normally refer to values; how do we refer to symbols?

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> (define a 1)
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Symbolic Programming

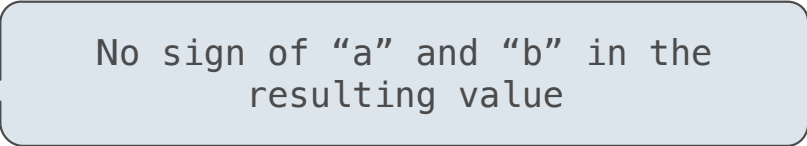
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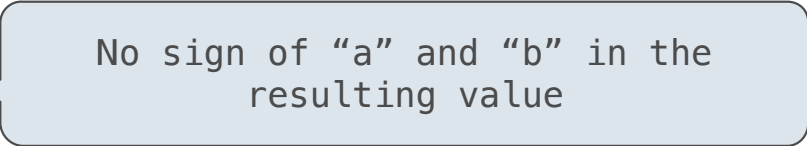


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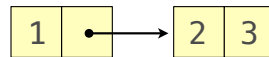

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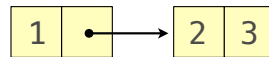
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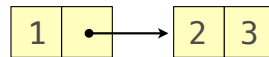
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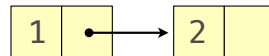
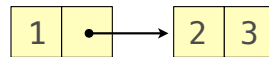
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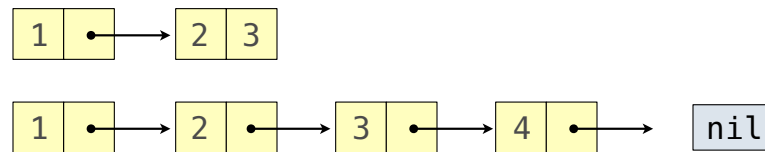
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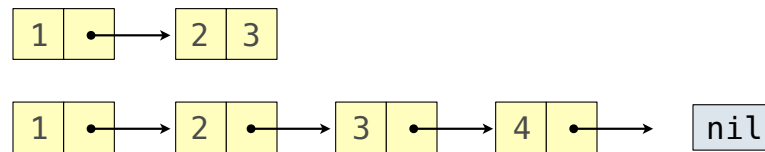
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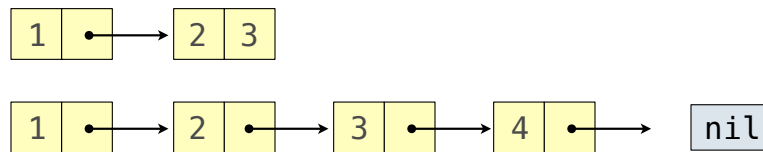
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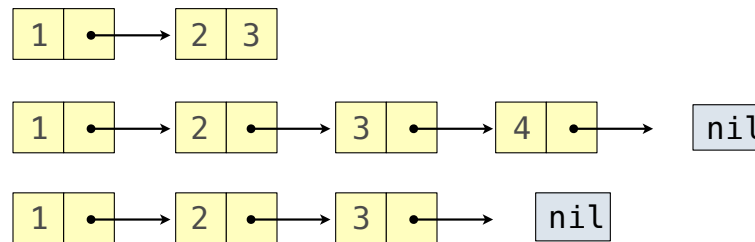
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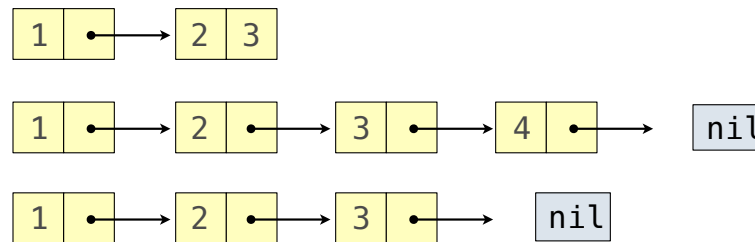
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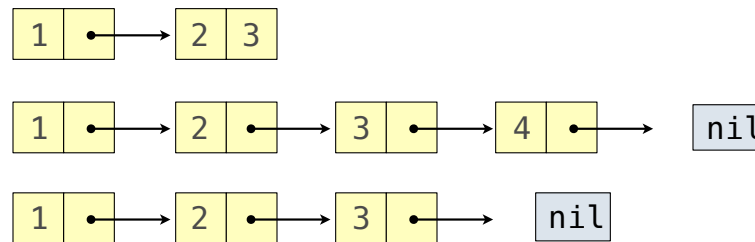
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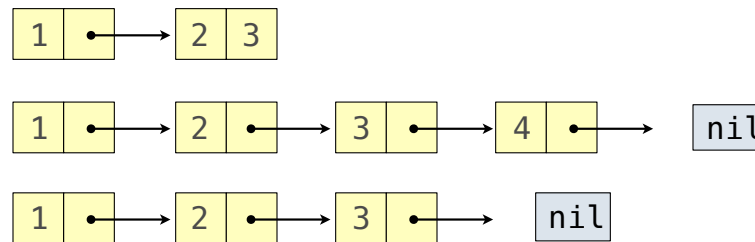
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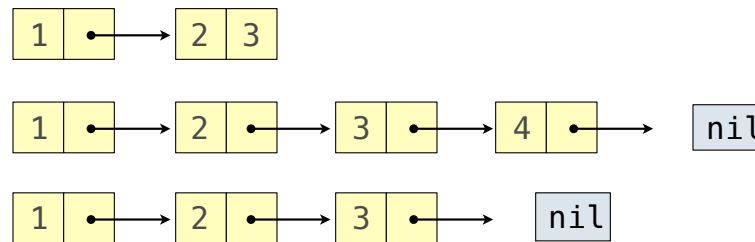
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Sierpinski's Triangle

(Demo)