CSSE 304 Day 04 Summary

1.	cons vs. list vs. append			(box-and-pointer diagrams)			
	a.	(define	x '(1 2	3))	(define	у'(4	5))
	b.	(cons x	у)				
		(list x	у)				
		(append	х у)				

2. apply applies a procedure to the elements of a list: (apply cons '(2 4)) is the same as (cons 2 4).

Other examples: [if apply did not exist, could we write it?]

3. Reflexive pairs.

A **relation** is a set of ordered pairs; the set of all first elements is the **domain**. The set of all second elements is the **range**. We represent a relation by a list of 2-lists. A **2-list** is a list whose length is 2. A **reflexive pair** is a 2-list whose first and last elements are the same. **count-reflexive-pairs** (work it out live)

