



# Exam Review

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## What Is Emphasized?

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- Design recipe (with minimal testing)
- Programming with functions. Using `map`.  
Practive writing functions using `map`.  
Example: `cons-all`
- Functional abstraction. Writing `map`, `fold` (called `foldr`) in Scheme library. How we get `fold` from the structural recursion template for lists?



# What Is Mentioned

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- Hand evaluation.
- Conversion to tail-recursive form.

## Examples:

- Simple (semantics preserving): `prod`
- Simple (semantics compromising): `rev-map`
- Complex (semantics preserving): `flatten`



## What Is Peripheral But Useful

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- Simulating deferred call-by-name using deferred evaluation. (Extra credit.)
  - Example: simulating Scheme and



## For Next Class

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- Homework due Monday
- Reading:
  - Review for coming exam which will be distributed on Friday.