```
fun append (xs,ys) =
    if xs=[]
    then ys
    else (hd xs)::append(tl xs,ys)

fun map (f,xs) =
    case xs of
      [] => []
      | x::xs' => (f x)::(map(f,xs'))

val a = map (increment, [4,8,12,16])
val b = map (hd, [[8,6],[7,5],[3,0,9]])
```

Programming Languages Dan Grossman University of Washington

Welcome to Part B!

Re-Welcome!

Part A covered a lot – now let's build on it!

Challenging opportunity to learn the fundamental concepts of programming languages

With hard work, patience, and an open mind, this course makes you a much better programmer

Poor course summary: "Uses ML, Racket, and Ruby"

Now:

- Another functional language easier to pick up
- Powerful idioms "delaying evaluation"
- Implementing your own programming language with closures
- Static vs. dynamic typing

(Lack of) introductory material

Similar format to Part A

So "dive right in"

(As needed, consult course information and Part A materials)