```
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

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Part B Course Structure

Part B: Three weeks

- Because we have done Part A and Racket installation is easy, can "jump right in"

- First two weeks: same structure to homeworks: auto-grader, peer review, …

- Third week: A quiz (10% of grade) on just that section

- Weeks 2 and 3 used to be combined, so now each is shorter, but:
  - Homework 5 (week 2) is considered by many to be much more challenging (and rewarding)

- An exam at the end of Part C covers *Part B and Part C*