

342: HW 5

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1. a) (define length-is
 (lambda (lst num)
 (if (null? lst)
 (num)
 (length-is (cdr lst) (+ num (length (car lst)))))
)
)
)

b) (define longest
 (lambda (lst max)
 (if (null? lst)
 (max)
 (if (< (length (car lst)) max)
 (longest ((cdr lst) (length (car lst))))
 (longest ((cdr lst) max)))))
)
)

2. (define shuffle
 (lambda (sst lst)
 (if (null? lst)
 (cons sst)
 (shuffle ((Random lst) lst))
)
)
)