CS 61AS 2011

Quiz 1a Rubric

Type A

How many times is \* invoked …

In applicative order? 1 In normal order? 3

In actual Scheme 1

One point each.

Type S

(define (cia sent)

(if (empty? sent)

‘()

(se (if (number? (first sent)) ‘omitted (first sent))

(cia (bf sent) )))

3 points if correct

2 points if close (i.e. missing base case)

1 points if has an idea (i.e. uses number? or uses recursion correctly)

You can take off half point for really silly mistakes like using word instead of sentence. Keep in mind that this is not the only solution.

Type E

(define (every-nth n sent)

(define (repeated-bf n sent)

(if (or (empty? sent) (= n 0))

sent

(every-nth (- n 1) (bf sent))))

(if (empty? sent)

‘()

(se (item n sent) (every-nth n (repeated-bf n sent))))

4 points correct

3 points almost correct (i.e. wrong base case)

2 points has the idea (i.e. uses item, but in the recursive call does bf instead of repeated-bf).

1 point has an idea (i.e. doesn’t use recursion but seems to be on the right track)