## Problem (3 / 6 points): It was a dark and mysterious recursion...

Consider the recursive procedure gather that takes a sentence of at least two single-character words (i.e., letters such as 'a', 'b', etc.):

```
;; sent-of-ltrs is a sentence of at least 2 words that are single
;; letters
(define (gather sent-of-ltrs)
    (cond ((empty? sent-of-ltrs) '())
        ((empty? (bf sent-of-ltrs))
                (se (first sent-of-ltrs)))
        ((equal? (first (first sent-of-ltrs))
                        (first (bf sent-of-ltrs)))
                (gather (se (word (first sent-of-ltrs)
                                    (first (bf sent-of-ltrs)))
                            (bf (bf sent-of-ltrs)))))
        (else
                (se (first sent-of-ltrs)
                    (gather (bf sent-of-ltrs))))))
```

Part A (3 points). What will (gather ' ( a b b b c d d )) return?

Part B (6 points). Write gather-hof, which behaves the same as gather but uses no explicit recursion.

