Ashok Malhotra
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2.

```
(define (rm-duplicates ls)
  (if (null? ls)
      ()
      (let ((first (car ls)))
        (let (loop ((known first)
                    (rest (cdr ls))
                    (so-far (list first)))
          (if (null? rest)
              (reverse so-far)
              (let ((first-remaining (car rest)))
                (loop first-remaining
                      (cdr rest)
                      (if (equal? known first-remaining)
                          so-far
                          (cons first-remaining so-far)))))))))
```