```
1.
             (define Helper (lambda (a lst)
                        (if (null? lst) (list)
                        (if (= a (car lst)) (car lst)
                        (if (null? (cdr lst)) (list)
                        (Helper a (cdr lst))))))
              (define Find (lambda (a lst)
                        (if (null? lst) (list)
                        (if (null? (Helper a (car lst))) (Find a (cdr lst))
                        (if (= a (FHelper a (car lst))) (car lst)
                        (if (null? (cdr lst)) (list)
                        (Find a (cdr lst)))))))
         b. (define Helper (lambda (l, r)
                                                               // takes 2 lists 1 and r
                        (if (null? 1) r
                        (cons (car l) (Helper (cdr l) r)))))
              (define Concatenate (lambda (lst)
                        (if (null? lst) (list)
                        (Helper (car lst) (Concatenate (cdr lst))))))
2.
    (define IndexFind (lambda (a lst)
              (if (null? lst) (list)
              (if (= 0 a) (car lst)
              (IndexFind (cdr lst) (- a 1)))))
    (define Length (lambda (lst)
              (if (null? 1st) 0
              (+ 1 (Length (cdr lst)))))
    (define Random (lambda (lst)
              (if (null? lst) (list)
              (IndexFind lst (- (Length lst) 1)))))
    (define ShuffleHelp (lambda (a lst)
              (if (null? lst) (list)
              (if (= a (car lst)) (cdr lst)
              (cons (car lst) (ShuffleHelp a (cdr lst)))))))
    (define Shuffle (lambda (lst)
              (if (null? lst) (list) (let ((a (Random lst)))
              (cons a (Shuffle (ShuffleHelp a lst)))))))
```