CSC104 Quiz #7

Name:

Assume that DrRacket has been started up in the Intermediate Student with lambda language, and that the following commands have been run.

(require picturing-programs)

(define L1 (list 7 6 5))
(define L2 (list
    (triangle 5 "solid" "green")
    (triangle 6 "solid" "green")
    (triangle 7 "solid" "green")))

(define L3 (list 45 (square 5 "solid" "green")))

; t : number -> image
(define (t n)
    (cond
        [(> n 0) (beside (t (- n 1)) (triangle (* n 5) "outline" "red"))]
        [else (triangle 1 "outline" "red")]
    ))

For full marks, describe or draw what is produced by 5 out of 6 of the following commands.

1. (apply * L1)

2. (apply + L1)

3. (apply rotate L3)

4. (t 0)

5. (t 1)

6. (t 2)