; ● CSC104 Winter 2020 — Exercise #3 — Print out and fill in by hand, then hand in to the TA at the start of your quiz. ●

; UTorID (login ID) :	
; Surname :	
; Given Name :	

; ● Part A. Show all the following steps.
; You do not need to include the "● Steps ●", "○", nor "•" punctuation that DrRacket shows when using step .
; Include ALL the underlining of sub-expressions that will change.
; In DrRacket, the step operation starts by copying the expression given to step so that it can add the underlining
; for that initial expression, but you may save some effort by adding the initial underlining directly to the original
; expression inside (step ⋯) rather than recopying that expression.

```
(step (combine + (map - (range 5))))
```

```
(step (combine * (map + (range 2 5))))
```

```
(step (map solid-triangle (range 15 16)))
```

```
(step (combine solid-square (range 10 11)))
```

```
(step (combine rectangle (range 10 40 15)))
```

```
(step (combine list (list text-length "ant" list flip △)))
```

```
(step (map     list (list text-length "ant" list flip △)))
```

```
(step (combine beside (map above (map mirror (list ◇ ⬯ ▽)))))
```

```
(step (combine above (map text->image (map text-join (list "ant" "bear" "ox")))))
```

```
(step (above (text->image (combine text-join (list "ant" "bear" "ox")))))
```

; ● Part B.
; For each of the following function definitions, EITHER :
; • CIRCLE "Grammatically Incorrect" if it is not a properly formed definition (i.e. causes an error on its own), OR
; • FILL IN the two assertions and show the steps for the given function call, including any error message that occurs during those steps.

```
(define (f.1 10)
  (oval 20 10))

 ; Grammatically Incorrect  OR

(same! (unary? f.1)              )

(same! (binary? f.1)              )

(step (f.1 20))
```

```
(define (f.2 x)
  (oval 20 10))

 ; Grammatically Incorrect  OR

(same! (unary? f.2)              )

(same! (binary? f.2)              )

(step (f.2 "1000"))
```

```
(define (f.3 "text")
  (text-join "text" "!"))

 ; Grammatically Incorrect  OR

(same! (unary? f.3)              )

(same! (binary? f.3)              )

(step (f.3 "text"))
```

```
(define (f.4 (list a b))
  (turn (triangle a) b))

 ; Grammatically Incorrect  OR

(same! (unary? f.4)               )

(same! (binary? f.4)               )

(step (f.4 (list 10 15)))
```

```
(define (f.5 (list a b))
  (map circle (list a b)))

 ; Grammatically Incorrect  OR

(same! (unary? f.5)               )

(same! (binary? f.5)               )

(step (f.5 10 15))
```

```
(define (f.6 a b)
  (map circle a b))

 ; Grammatically Incorrect  OR

(same! (unary? f.6)               )

(same! (binary? f.6)               )

(step (f.6 10 15))
```

```
(define (f.7 a b)
  (map circle (list b a)))

 ; Grammatically Incorrect  OR

(same! (unary? f.7)               )

(same! (binary? f.7)               )

(step (f.7 10 15))
```

```
(define (f.8 a)
  (map circle a))

 ; Grammatically Incorrect  OR

(same! (unary? f.8)               )

(same! (binary? f.8)               )

(step (f.8 (list 10 15)))
```

```
(define (f.9 a)
  (map circle (list a)))

 ; Grammatically Incorrect  OR

(same! (unary? f.9)               )

(same! (binary? f.9)               )

(step (f.9 10 20))
```

```
(define (f.10 a b)
  scale a b)

 ; Grammatically Incorrect  OR

(same! (unary? f.10)               )

(same! (binary? f.10)               )

(step (f.10 (star 10) 20))
```

```
(define (f.11 amy)
  (text-join "amy" "!"))

 ; Grammatically Incorrect  OR

(same! (unary? f.11)               )

(same! (binary? f.11)               )

(step (f.11 "clara"))
```

```
(define (f.12 amy)
  (text-join amy "!"))

 ; Grammatically Incorrect  OR

(same! (unary? f.12)               )

(same! (binary? f.12)               )

(step (f.12 "clara"))
```

```
(define (f.13 amy)
    amy "amy")

 ; Grammatically Incorrect  OR

(same! (unary? f.13)               )

(same! (binary? f.13)               )

(step (f.13 "clara"))
```

```
(define (f.14 amy)
  (text-join amy "amy"))

 ; Grammatically Incorrect  OR

(same! (unary? f.14)               )

(same! (binary? f.14)               )

(step (f.14 "clara"))
```

```
(define (f.15 amy)
  (list amy "amy"))

 ; Grammatically Incorrect  OR

(same! (unary? f.15)               )

(same! (binary? f.15)               )

(step (f.15 "clara"))
```