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; • CSC104 Winter 2020 - Exercise #4 - 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 I.
; Define sesqui so that it behaves as shown : (step (sesqui 1903))
                                                             (step (sesqui 2020))
                                     ; ... produces the steps ... ; ... produces the steps ...
                                      (+ 1903 150)
                                                             (+ 2020 150)
                                     2053
                                                              2170
; Beside each of these two expressions write its value : | sesqui
                                                                    (sesqui 1815)
; Show, with standard underlining, the following steps ...
 (step (map sesqui (list 1815 1906 1903)))
                                                     (step (hide sesqui) (map sesqui (list 1815 1906 1903)))
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                             https://powcoder.com
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; Define ! so that it behaves as shown ... (step (! "wow"))
                                                           (step (! "whatever"))
                                  ; ... produces the steps ...
                                                           ; ... produces the steps ...
                                                           (text-join "whatever" "!")
                                  (text-join "wow" "!")
                                  "wow!"
                                                          "whatever!"
```

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; Beside each of these two expressions write its value : | ! | (! "buddy")
; Show, with standard underlining, the steps for : | (step (hide !) (map ! (list "wow" "whatever" "buddy")))
```

```
(step (born-1906? (list 1815 "Lovelace" "Ada")))
 (step (born-1906? (list 1906 "Goedel" "Kurt")))
 ; ... produces the steps ...
                                                                            ; ... produces the steps ...
 (same? (first (list 1906 "Goedel" "Kurt")) 1906)
                                                                            (same? (first (list 1815 "Lovelace" "Ada")) 1906)
 (same? 1906 1906)
                                                                            (same? 1815 1906)
 #true
                                                                            #false
; Beside each of these two expressions write its value ...
 born-1906?
                                                           (born-1906? (list 1903 "Church" "Alonzo"))
                                                    (step (text-first "ruby"))
                                                                                                  (step (text-first "jade"))
: Define text-first so that it behaves as shown :
                                                    ; ... produces the steps ...
                                                                                                 ; ... produces the steps ...
                                                    (first (text->list "ruby"))
                                                                                                 (first (text->list "jade"))
                                                    (first (list "r" "u" "b" "y"))
                                                                                                 (first (list "j" "a" "d" "e"))
; Beside each of these two expression enter the value .... Project Exam Help
                                                             (text-first "onyx")
 text-first
; Show, with standard underlining, the standard underlining (standard underlining).
         (map text-first (list "ruby" "jade" "onyx")))
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; • Part II. Assume the following definitions have been entered/run ... (define R
                                                                                             (random 1000000))
                                                                           (define (r _) (random 1000000))
                                                                           (define (Rf _) R)
; ... then under each of these expressions write its value ...
                                                              (same? (r "hmm")
                                                                                             (same? (Rf "hmm")
 (same? (random 1000000)
                                        (same? R R)
           (random 1000000))
                                                                        (r "hmm"))
                                                                                                      (Rf "hmm"))
```

; Define born-1906? so that it behaves as shown ...

```
 \begin{array}{c} (\text{step (hide (A 0))} \\ (\text{A 1))} \end{array} \hspace{2cm} (\text{step (hide (A 1))} \\ (\text{A 2))} \end{array}
```

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```
; Based on these definitions ... (define C (circle 20))
                                              (define (arrange an-image)
                                                (beside C (tall an-image) C))
; ... show the steps, with standard underlining, for ...
 (step (arrange C))
; Beside each of these two expressions write its value : C
                                                     arrange
                     (define (B k)
; Based on this definition ...
                       (if (same? k 0) C
                          •else (arrange (B (-
                                              röject Exam Help
 (step (B 0))
                                                                arrange)
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```

; • Part IV.