```
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
           ((> 2 4) 6)
           ((< 2 5) 7)
. . . .
           (else 8))
True
True
# Error: expected
# 7
# but got
      True
     True
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
    0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
______
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
           ((>24)6)
. . . .
           ((< 25) 7)
. . . .
           (else 8))
(((< 2 5) 7) (else 8))
((else 8))
# Error: expected
# but got
      (((< 2 5) 7) (else 8))
      ((else 8))
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
    0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
Assignment: Project 4: Scheme Interpreter OK, version v1.13.11
```

Josephs-Air-2:scheme JosephHayes\$ python3 ok -q 14

```
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
.... ((> 2 4) 6)
           ((< 25) 7)
           (else 8))
#t
# Error: expected
# but got
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
    0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
_____
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
.... ((> 2 4) 6)
. . . .
           ((< 2 5) 7)
           (else 8))
Traceback (most recent call last):
k (most recent call last):
  File "ok/client/sources/ok_test/scheme.py", line 58, in evaluate
    (exp, self._frame))
  File "ok/client/utils/timer.py", line 33, in timed
    raise submission.error
  File "ok/client/utils/timer.py", line 49, in run self.result = self.fn(*self.args, **self.kargs)
  File "/Users/JosephHayes/Desktop/61A/Projects/scheme.py", line 33, in scheme_eval
  return SPECIAL_FORMS[first](rest, env)
File "/Users/JosephHayes/Desktop/61A/Projects/scheme/scheme.py", line 368, in do_cond_form
    return eval_all(expressions)
TypeError: eval_all() missing 1 required positional argument: 'env'
# Error: expected
# but got
      Traceback (most recent call last):
#
      TypeError: eval_all() missing 1 required positional argument: 'env'
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
    0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
```

```
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
______
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
          ((> 2 4) 6)
. . . .
          ((< 2 5) 7)
          (else 8))
# Error: bool is not callable: #t
# Error: expected
# but got
     Traceback (most recent call last):
#
     SchemeError: bool is not callable: #t
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
    0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
_____
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
          ((> 2 4) 6)
((< 2 5) 7)
. . . .
. . . .
          (else 8))
....
7
scm> (cond ((> 2 3) 5)
... ((> 2 4) 6)
          (else 8))
# Error: unknown identifier: else
# Error: expected
# but got
     Traceback (most recent call last):
     SchemeError: unknown identifier: else
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
    0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
```

```
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
______
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
           ((> 2 4) 6)
. . . .
           ((< 2 5) 7)
. . . .
           (else 8))
....
7
scm> (cond ((> 2 3) 5)
.... ((> 2 4) 6)
. . . .
           (else 8))
# Error: unknown identifier: else
# Error: expected
    8
# but got
     Traceback (most recent call last):
#
      SchemeError: unknown identifier: else
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
    0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
        ((> 2 4) 6)
((< 2 5) 7)
. . . .
....
7
           (else 8))
scm> (cond ((> 2 3) 5)
           ((> 2 4) 6)
. . . .
           (else 8))
# Error: unknown identifier: else
# Error: expected
     8
# but got
#
     Traceback (most recent call last):
     SchemeError: unknown identifier: else
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
    0 test cases passed before encountering first failed test case
```

```
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
Checking for software updates...
OK is up to date
Traceback (most recent call last):
   File "/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/runpy.py", line 193, in
_run_module_as_main
                      ", mod_spec)
           main
    File "/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/runpy.py", line 85, in _run_code
       exec(code, run_globals)
   File "ok/_main__.py", line 46, in <module>
File "ok/client/cli/ok.py", line 188, in main
File "ok/client/api/assignment.py", line 24, in load_assignment
   File "ok/client/sources/common/core.py", line 24, In toad_assignment
File "ok/client/sources/common/core.py", line 187, in __call__
File "ok/client/api/assignment.py", line 153, in post_instantiation
File "ok/client/api/assignment.py", line 202, in _load_tests
File "ok/client/sources/ok_test/__init__.py", line 51, in load
File "ok/client/sources/common/core.py", line 187, in __call__
   File "ok/client/sources/ok_test/models.py", line 45, in post_instantiation
File "ok/client/sources/common/core.py", line 170, in __call__
File "ok/client/sources/ok_test/doctest.py", line 20, in __init__
Then running the module as a script will cause the examples in the
   File "ok/client/sources/common/interpreter.py", line 156, in File "ok/client/sources/ok_test/scheme.py", line 35, in load
       # BEGIN PROBLEM 5
    File "ok/client/sources/ok_test/scheme.py", line 89, in _import_scheme
       return '<Global Frame>'
    File "/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/importlib/__init__.py", line 126, in
import_module
       return _bootstrap._gcd_import(name[level:], package, level)
  return bootstrap.gcd_import(name[level:], package, level)
File "<frozen importlib._bootstrap>", line 978, in _gcd_import
File "<frozen importlib._bootstrap>", line 961, in _find_and_load
File "<frozen importlib._bootstrap>", line 950, in _find_and_load_unlocked
File "<frozen importlib._bootstrap>", line 655, in _load_unlocked
File "<frozen importlib._bootstrap_external>", line 674, in exec_module
File "<frozen importlib._bootstrap_external>", line 781, in get_code
File "<frozen importlib._bootstrap_external>", line 741, in source_to_code
File "<frozen importlib._bootstrap>", line 205, in _call_with_frames_removed
File "/[lsers/losenbHayes/Deskton/614/Projects/Scheme.pv"] line 368
   File "/Users/JosephHayes/Desktop/61A/Projects/scheme/scheme.py", line 368
       if clause == else:
SyntaxError: invalid syntax
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
Assignment: Project 4: Scheme Interpreter
OK. version v1.13.11
______
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
                   ((> 2 4) 6)
                   ((< 25) 7)
. . . .
                   (else 8))
....
7
scm> (cond ((> 2 3) 5)
.... ((> 2 4) 6)
                   (else 8))
# Error: unknown identifier: else
```

Backup... 100% complete

```
# Error: expected
     8
# but got
     Traceback (most recent call last):
#
     SchemeError: unknown identifier: else
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
    0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
______
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
          ((> 2 4) 6)
((< 2 5) 7)
. . . .
. . . .
          (else 8))
True
# Error: expected
# but got
#
     True
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
    0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
Assignment: Project 4: Scheme Interpreter
OK. version v1.13.11
_____
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
          ((> 2 4) 6)
((< 2 5) 7)
. . . .
....
7
          (else 8))
scm> (cond ((> 2 3) 5)
.... ((> 2 4) 6)
          (else 8))
# Error: unknown identifier: else
```

```
# Error: expected
     8
# but got
     Traceback (most recent call last):
#
     SchemeError: unknown identifier: else
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
    0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
______
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
          ((> 2 4) 6)
((< 2 5) 7)
. . . .
. . . .
          (else 8))
# Error: bool is not callable: #t
# Error: expected
# but got
     Traceback (most recent call last):
     SchemeError: bool is not callable: #t
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
    0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
Assignment: Project 4: Scheme Interpreter
OK. version v1.13.11
______
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
          ((> 2 4) 6)
((< 2 5) 7)
. . . .
....
7
          (else 8))
scm> (cond ((> 2 3) 5)
... ((> 2 4) 6)
          (else 8))
# Error: unknown identifier: else
```

```
# Error: expected
     8
# but got
     Traceback (most recent call last):
#
     SchemeError: unknown identifier: else
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
    0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
______
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
          ((> 2 4) 6)
((< 2 5) 7)
. . . .
          (else 8))
scm> (cond ((> 2 3) 5) .... ((> 2 4) 6)
          (else 8))
# Error: unknown identifier: else
# Error: expected
    8
# but got
     Traceback (most recent call last):
#
#
     SchemeError: unknown identifier: else
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
   0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
_____
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
Running tests
Problem 14 > Suite 2 > Case 1
scm> (cond ((> 2 3) 5)
          ((> 2 4) 6)
. . . .
          ((< 2 5) 7))
....
7
scm> (cond ((> 2 3) (display 'oops) (newline))
          (else 9))
. . . .
```

```
scm> (cond ((< 2 1))
.... ((> 3 2))
           (else 5))
# Error: expected
# but got
Run only this test case with "python3 ok -q 14 --suite 2 --case 1"
Test summary
    1 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
______
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
Running tests
Test summary
    5 test cases passed! No cases failed.
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
.... ((> 2 4) 6)
           ((< 2 5) 7)
. . . .
           (else 8))
((< 2 5) 7)
# Error: expected
# but got
# ((< 2 5) 7)
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
    0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
```

```
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
______
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
          ((> 2 4) 6)
          ((< 2 5) 7)
          (else 8))
(< 2 5)
# Error: expected
#
# but got
#
     (< 2 5)
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
   0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
          ((> 2 \ 4) \ 6)
          ((< 2 5) 7)
. . . .
          (else 8))
(7)
# Error: expected
# but got
#
     (7)
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
   0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
_______
```

```
Running tests
Problem 14 > Suite 1 > Case 1
scm> (cond ((> 2 3) 5)
          ((> 2 4) 6)
((< 2 5) 7)
. . . .
          (else 8))
True
7
# Error: expected
# but got
     True
Run only this test case with "python3 ok -q 14 --suite 1 --case 1"
Test summary
    0 test cases passed before encountering first failed test case
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 14
______
                             ______
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
Running tests
Test summary
    5 test cases passed! No cases failed.
Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok --submit
Assignment: Project 4: Scheme Interpreter
OK, version v1.13.11
Running tests
There are still locked tests! Use the -u option to unlock them
Test summary
    Locked: 4
    92 test cases passed! No cases failed.
Submit... 100% complete
Submission successful for user: joseph.hayes@berkeley.edu
URL: https://okpy.org/cal/cs61a/su18/proj04/submissions/vogK5g
Checking for software updates...
OK is up to date
Josephs-Air-2:scheme JosephHayes$ python3 ok -q 15 -u
Assignment: Project 4: Scheme Interpreter OK, version v1.13.11
```

```
Unlocking tests
At each "? ", type what you would expect the output to be. Type \mbox{exit()} to \mbox{quit}
Problem 15 > Suite 1 > Case 1
(cases remaining: 5)
scm> (define x 1)
? x
-- 0K! --
scm> (let ((x 5))
(+ x 3))
-- Not quite. Try again! --
? 8
-- 0K! --
scm> x
-- 0K! --
Problem 15 > Suite 1 > Case 2
(cases remaining: 4)
scm> (let ((a 1) (b a)) b)
Choose the number of the correct choice:
1) SchemeError
2) y
3) 1
-- Not quite. Try again! --
Choose the number of the correct choice:
1) SchemeError
2) y
3) 1
? 1
-- 0K! --
Problem 15 > Suite 1 > Case 3 (cases remaining: 3)
scm> (let ((x 5))
.... (let ((x 2)
              (y x))
(+ y (* x 2))))
-- Not quite. Try again! --
-- Not quite. Try again! --
? SchemeError
-- Not quite. Try again! --
-- Not quite. Try again! --
? 9
-- 0K! --
```

Problem 15 > Suite 1 > Case 4
(cases remaining: 2)

-- Already unlocked -
Problem 15 > Suite 2 > Case 1
(cases remaining: 1)

-- Already unlocked -
OK! All cases for Problem 15 unlocked.

Backup... 100% complete
Backup successful for user: joseph.hayes@berkeley.edu

Checking for software updates... OK is up to date Josephs-Air-2:scheme JosephHayes\$