CS 61A Structure and Interpretation of Computer Programs
Summer 2016

INSTRUCTIONS

- You have 25 minutes to complete this quiz.
- The exam is closed book, closed notes, closed computer, closed calculator.
- Mark your answers on the quiz itself. We will not grade answers written on scratch paper.

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All the work on this exam is my own. (please sign)
1. (5 points) The Great Frame is Terrifying

(a) (4 pt) Fill in the environment diagram that results from executing the code below until the entire program is finished, an error occurs, or all frames are filled. You may not need to use all of the spaces or frames.

A complete answer will:
- Add all missing names and parent annotations to all frames.
- Add all missing values created or referenced during execution.
- Show the return value for each local frame.

```python
def jon(snow):
    thing = 42
    def no(know):
        no = thing
        return know * snow(know)
    return no

thing, no = 7, 4
snow = lambda oh: oh * no
olly = jon(snow)(no)
```

(b) (1 pt) If we change line 8 to `thing, no = 12, 10`, what value does `olly` get bound to in line 10?