

CS 496: Quiz 2

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Exercise 1

Consider the following code in PROC

```
1 let x=2
2 in let f=proc (x) x
3   in let g=proc(y) x
4     in 3
```

Draw the environment used by the interpreter when it is about to evaluate line 4. You may assume the initial environment is empty.

Exercise 2

Consider the following code in PROC

```
1 let x=2
2 in let f=proc (x) proc(y) -(x,y)
3   in f
```

Write the result of evaluating this program. You may assume that the initial environment is empty.