

CS 496: Quiz 4

Spring 2017

March 29, 2017

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Exercise 1

Consider the following program.

```
1 let a = 3
2 in let g = proc(x)
3     proc(y)
4         if zero?(x)
5         then y
6         else -(x,y)
7 in ((g a) -(a,1))
```

1. Write the contents of the environment and the store when this program is about to evaluate line 4, just after both parameters have been passed on to `g`. Assume parameters are passed using call-by-reference.
2. Write the contents of the environment and the store when this program is about to evaluate line 4, just after both parameters have been passed on to `g`. Assume parameters are passed using call-by-name.