
CS 61A Reverse Environment Diagram Practice

Spring 2021

February 13, 2021

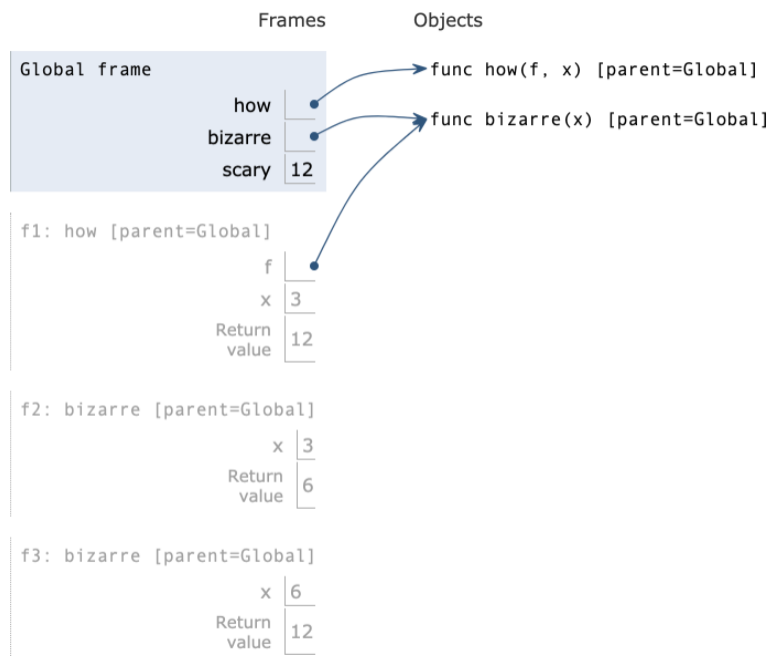
Questions

- 0.1 Fill in the lines below so that the execution of the program would lead to the environment diagram below. You may not use any numbers in any blanks.

```
def how(f, x):  
    return _____
```

```
def bizarre(___):  
    return 2 * _____
```

```
scary = _____(_____, 3)
```



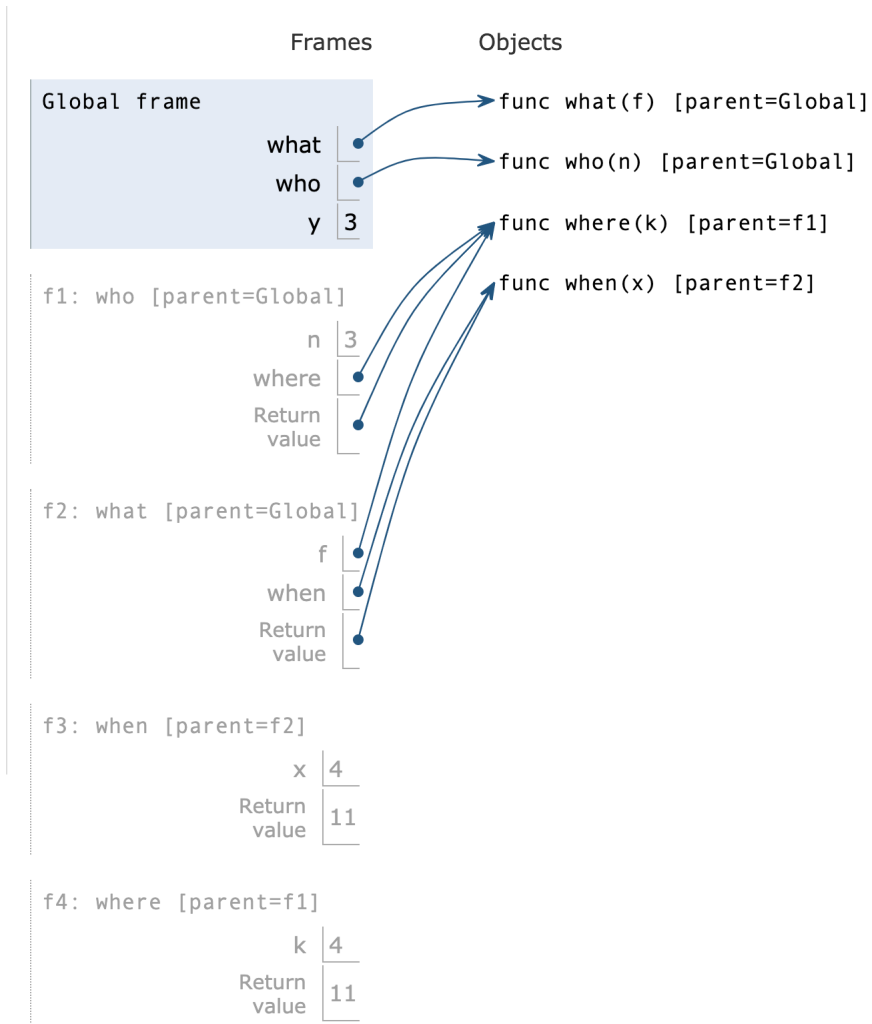
2 Reverse Environment Diagram Practice

0.2 Fill in the lines below so that the execution of the program would lead to the environment diagram below. You may not use any numbers in any blanks.

```
def what(_____):
    def _____(x):
        return _____
    return _____
```

```
def who(n):
    def _____(k):
        return 2 * k + n
    return _____
```

```
y = 3
_____ (_____ (_____))(4)
```

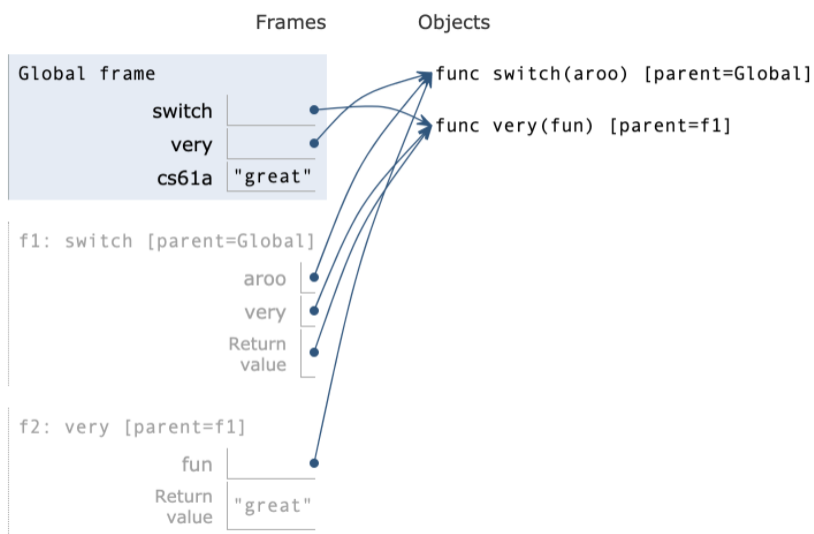


- 0.3 Fill in the lines below so that the execution of the program would lead to the environment diagram below. You may not use any numbers in any blanks.

```
def switch(afoo):
    def _____(fun):
        if afoo _____ fun:
            return "great"
        return "terrible"
    return _____

very = switch(_____)

_____
cs61a = switch(_____)
```



4 Reverse Environment Diagram Practice

0.4 Fill in the lines below so that the execution of the program would lead to the environment diagram below. You may only use `y`, `(`, `)`, and `h` in the blanks.

```

y = "y"
h = _____
def y(_____):
    h = "h"
    if y == h:
        return y + "i"
    y = lambda _____: _____
    return lambda _____: _____
y = y(_____)(_____)
```

