```
1 #Procedure copy1
2 x = 0
3 z = 0
4 y = 0
5 if x == 0:
6 z=1
7 if z == 0:
8 y=1
```

Listing 1: Python version of copy1 example in [?]. goal: information flow from x to y

```
1 # Procedure copy2
2 x = 0
3 z = 1
4 y = -1
5 while z == 1:
6 y = y + 1
7 if y == 0:
8 z = x
9 else:
10 z = 0
```

Listing 2: Python version of copy2 example in [?]. goal: information flow from x to y

```
1 #copy3 synchronization flow
2 import thread
3 import time
4 import threading
6 #x=7
7 #y=6
* \# def copy3(x,y): \# copy x to y
9 s0 = threading.Event()
s1 = threading.Event()
11
def thread1():
13 global x
14 if x = = 0:
15 s0.set()
16 else:
17 s1.set()
18
def thread2():
20 global y
21 s0. wait()
22 s0.clear()
23 y=1
24 s1.set()
25
def thread3():
27 global y
28 s1.wait()
29 sl.clear()
30 y=0
31 s0.set()
```

```
32
33 try:
34 thread.start_new_thread(thread1,())
35 thread.start_new_thread(thread2,())
36 thread.start_new_thread(thread3,())
37 except:
38 print "Error: unable to start thread"
```

Listing 3: Python version of copy3 example in [?]. goal: information flow from x to y

```
1 #Procedure copy4
2 import thread
з import time
 4 import threading
6 def thread1():
7 global x
s global e0
9 global e1
10 if x==0:
_{11} e0 = False
12 else:
e1 = False
14
def thread2():
16 global e0
17 global e1
18 global y
19 while e0
20 pass
_{21} y = 1
e1 = False
def thread3():
25 global e1
26 global e0
27 global y
28 while e1:
29 pass
30 y = 0
e0 = False
_{33} thread.start_new_thread(thread1,())
thread.start_new_thread(thread2,())
thread.start_new_thread(thread3,())
```

Listing 4: Python version of copy4 example in [?]. goal: information flow from x to y

```
#Procedure copy5
2 y = 0
3 while x==0:
4 pass
5 y = 1
```

Listing 5: Python version of copy5 example in [?]. goal: information flow from x to y

```
1 #copy6
2 z = 0
3 ssum = 0
4 y = 0
5 while z == 0:
6 ssum = ssum + x
7 y = y + 1
```

Listing 6: Python version of copy6 example in [?]. goal: information flow from x to y

Listing 7: Python version of dynamic label example in [?]. goal: information flow from x to y