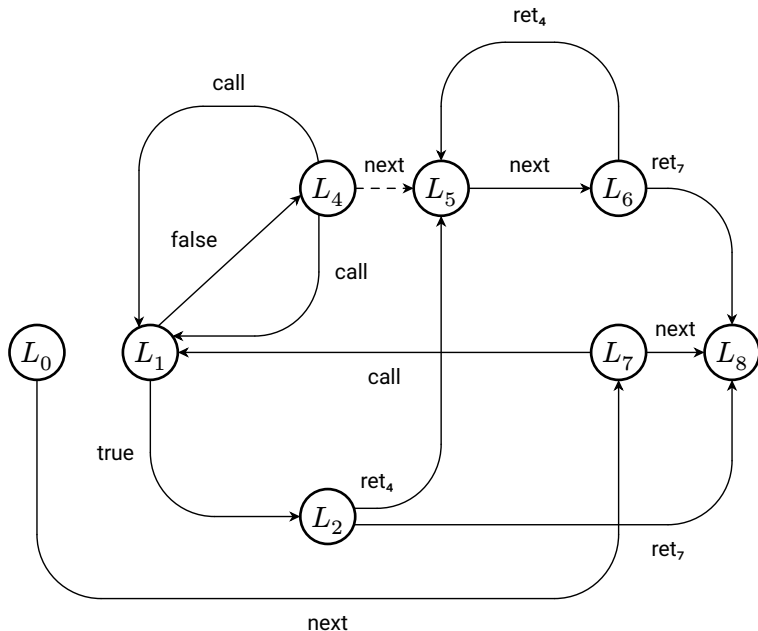


Procedural Program: Statics

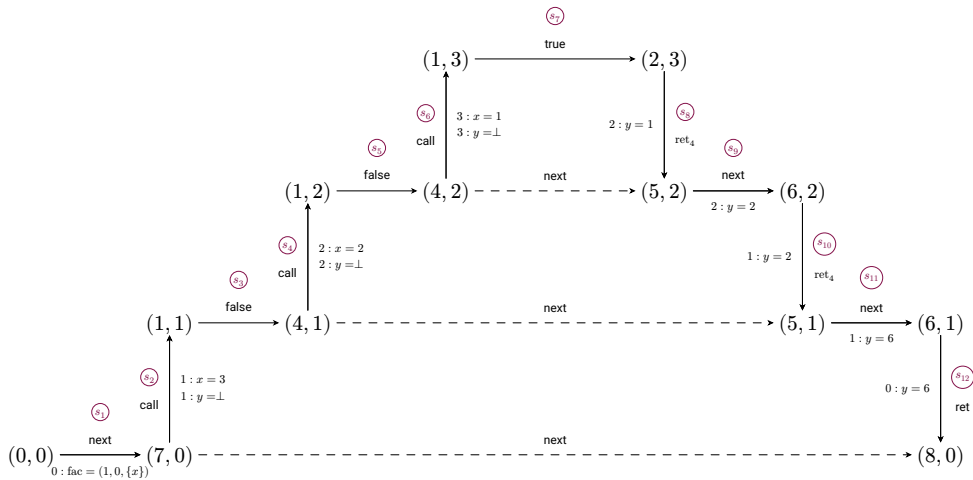
```
0  def fac(x):  
1      if x == 1:  
2          return 1  
3      else:  
4          y = fac(x-1)  
5          y *= x  
6          return y  
7  a = fac(3)  
8
```

Loc	next	true	false	call	ret ₄	ret ₇	err
0	7	-	-	-	-	-	-
1	-	2	4	-	-	-	8
2	-	-	-	-	{5}	{8}	8
3	-	-	-	-	-	-	-
4	5	-	-	{1}	-	-	8
5	6	-	-	-	-	-	8
6	-	-	-	-	{5}	{8}	8
7	8	-	-	{1}	-	-	8
8	-	-	-	-	-	-	-

Procedural Program: Statics (ii)



Procedural Program: Dynamics



Procedural Program: Dynamics (ii)

$$e_0 = \begin{cases} f \mapsto (1, 0, \{x\}) \\ y \mapsto 6 \end{cases}$$

s_1

s_{12}

$$e_1 = \begin{cases} x \mapsto 3 \\ \cancel{y \mapsto 1} \\ \cancel{y \mapsto 2} \\ y \mapsto 6 \end{cases}$$

s_2

s_2

s_{10}

s_{11}

$$e_2 = \begin{cases} x \mapsto 2 \\ \cancel{y \mapsto 1} \\ \cancel{y \mapsto 1} \\ y \mapsto 2 \end{cases}$$

s_2

s_2

s_{10}

s_{11}

$$e_3 = \begin{cases} x \mapsto 1 \\ \cancel{y \mapsto 1} \end{cases}$$

s_2

s_2