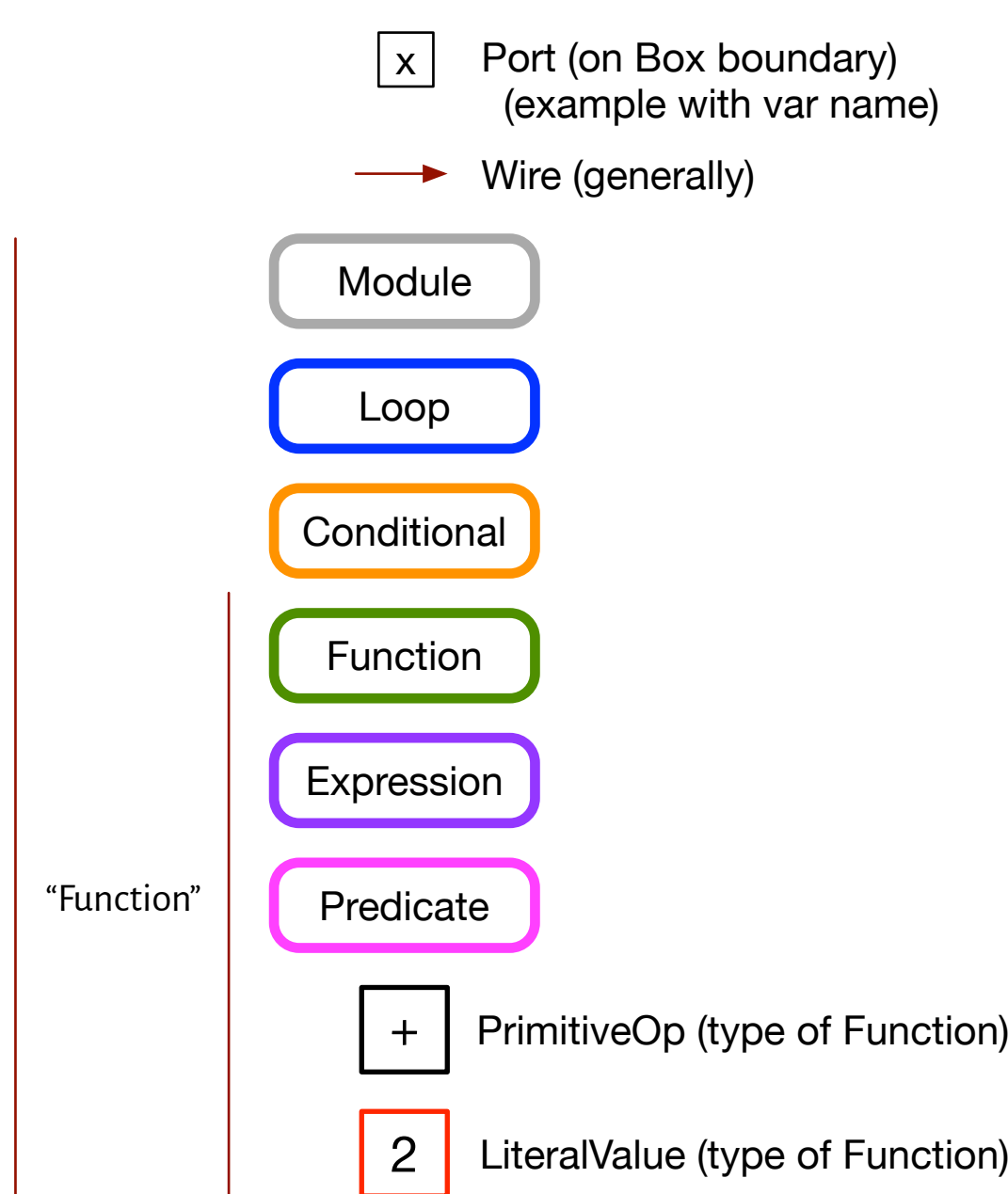


GroMEt  $\mathcal{FN}$ 

GroMET FN Instance Notation:

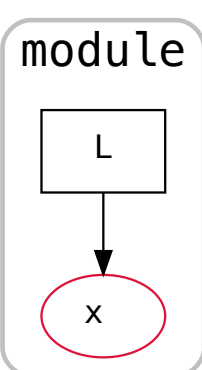


GrFN 2.3 to GroMET FN translation:

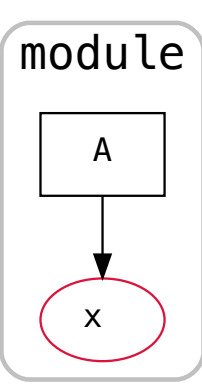
- GrFN Assignment are generally identified with Expressions
- GrFN Variable assignments are identified with Output Ports (PortOut and OuterPortOut) of Functions
- GrFN LiteralValues are GroMet LiteralValue (type of Function)

# Python

0.py

$$x = 2$$


ру

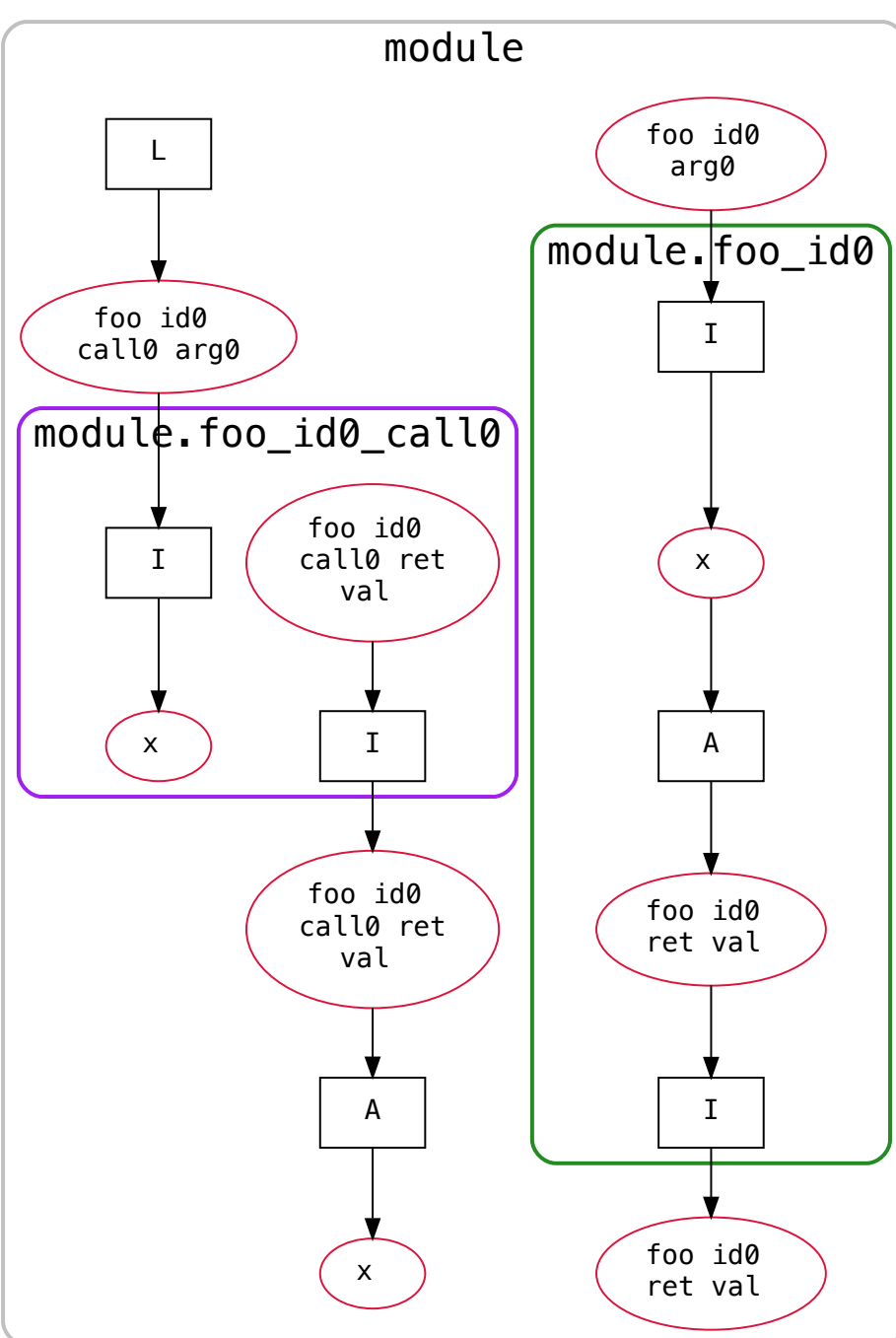
$$x = 2 + 3$$


..D.V.

$$\begin{aligned}x &= 2 \\ y &= x + 3\end{aligned}$$

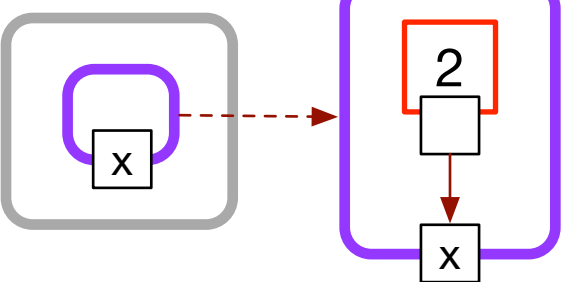
an1.py

```
def foo(x):  
    return x + 3  
x = foo(2)
```

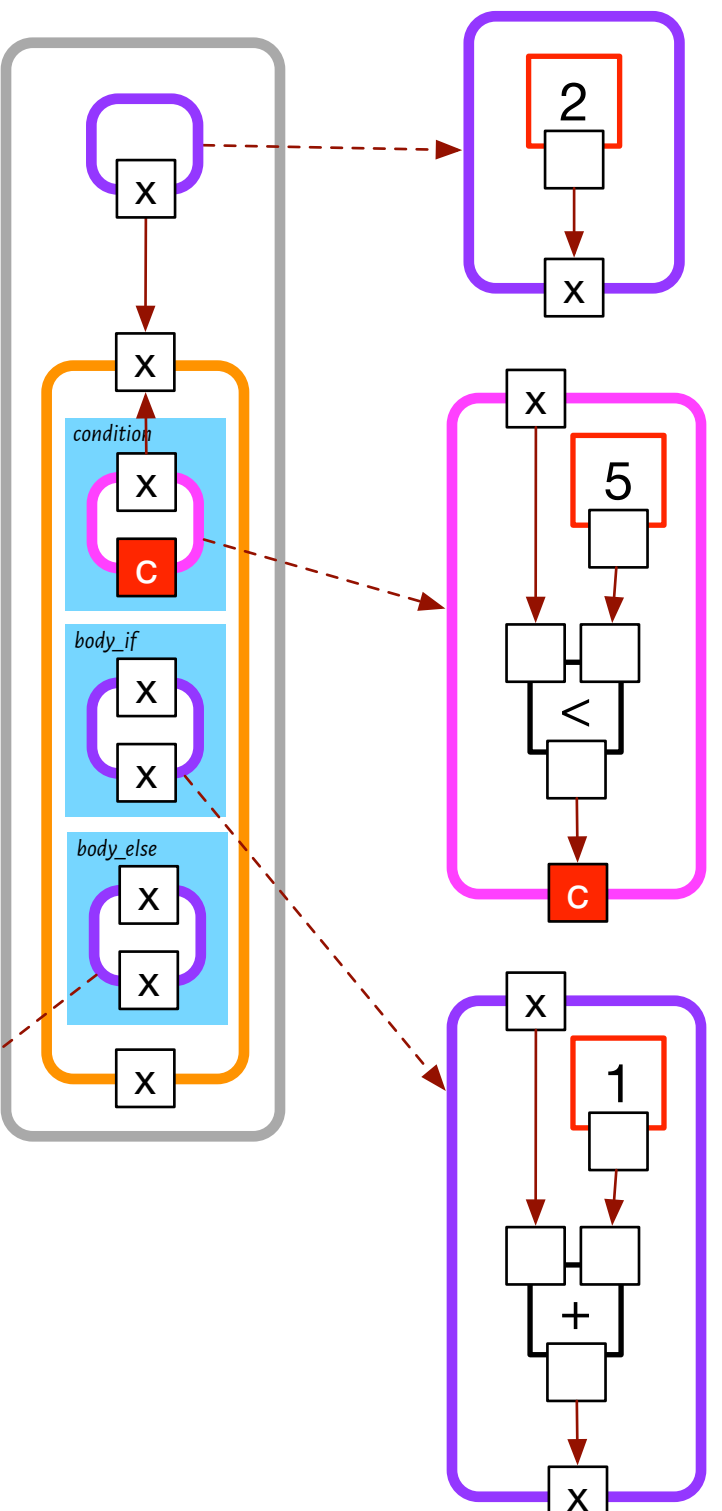
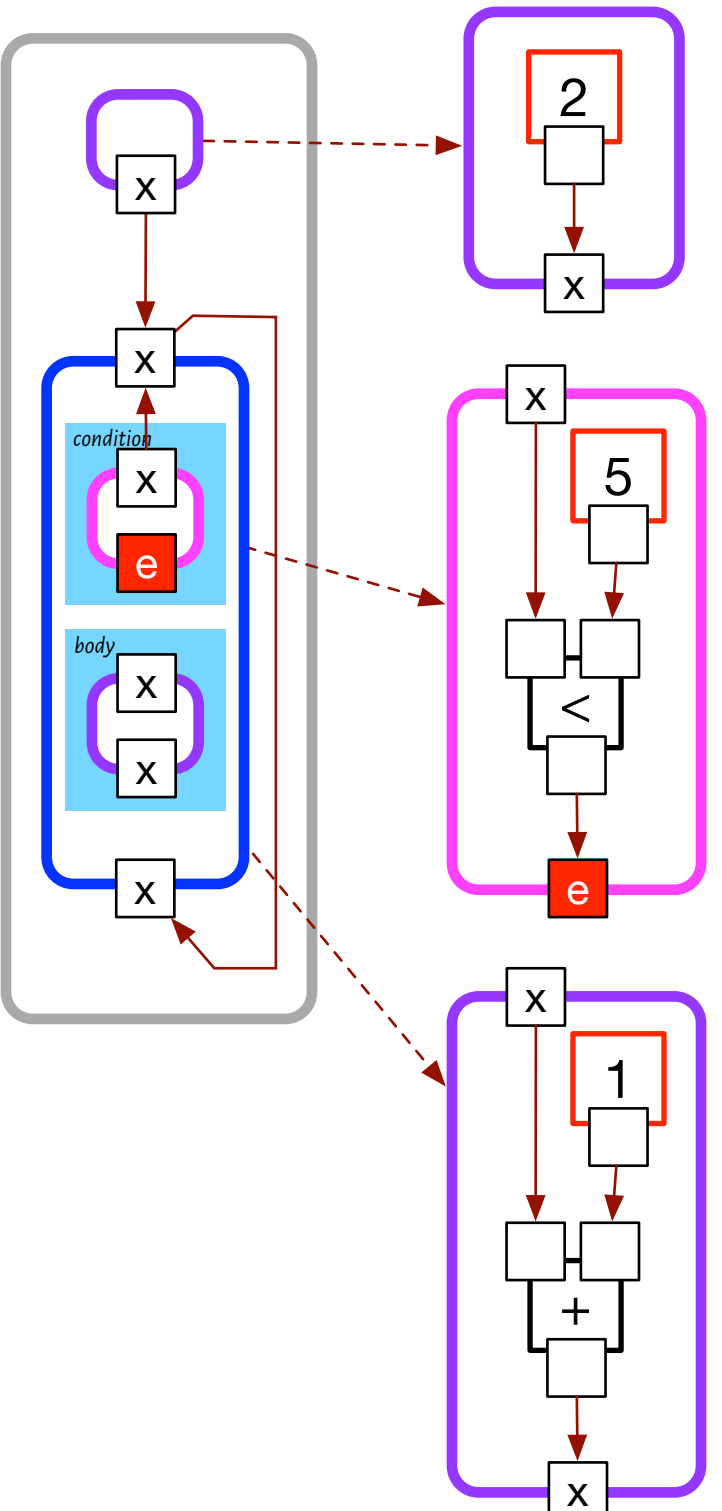
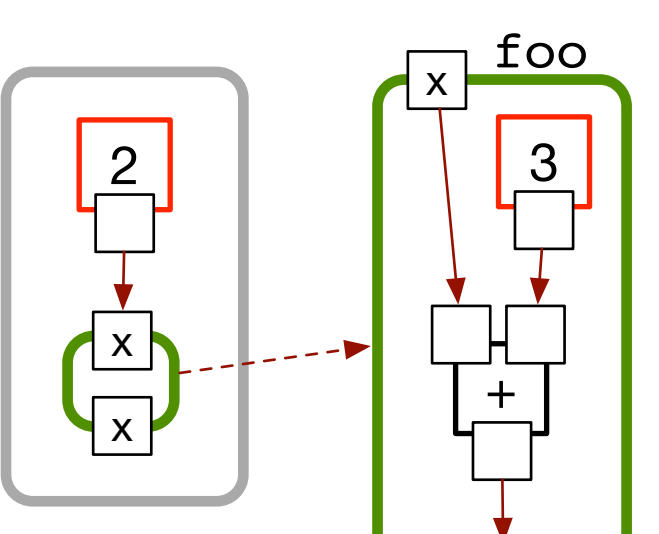
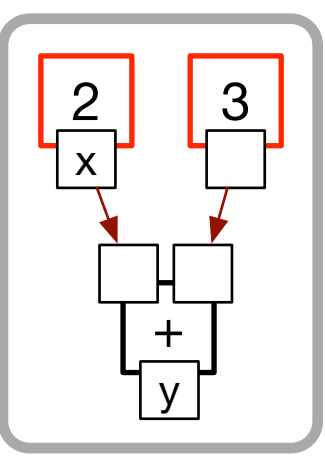
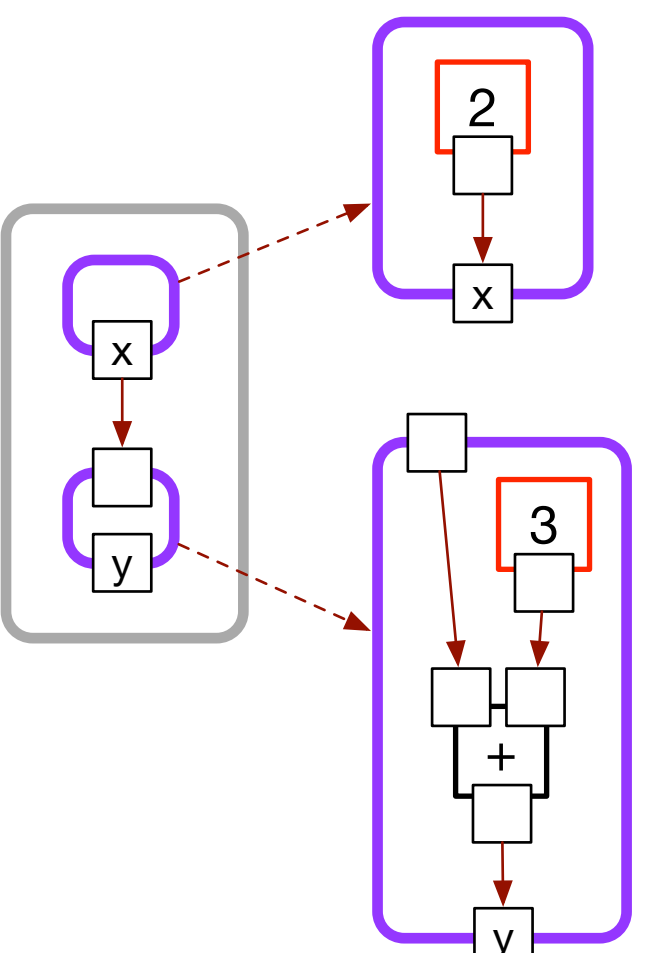
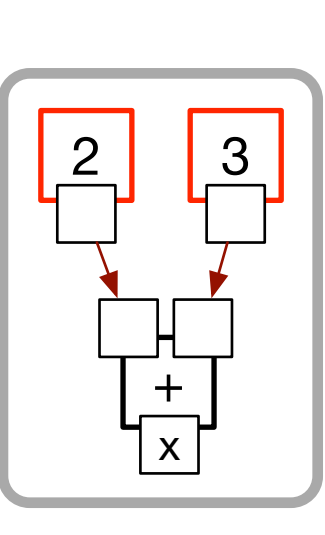
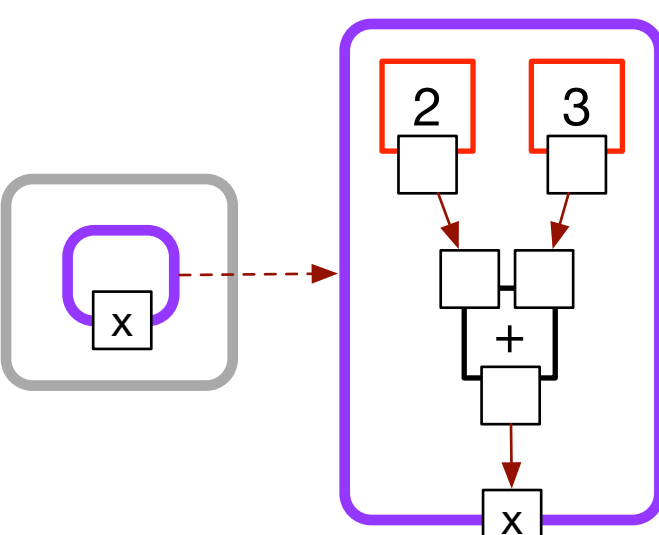
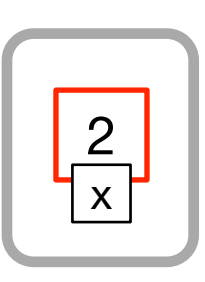


e1.DV

```
x = 2
while x < 5:
    x = x + 1
```



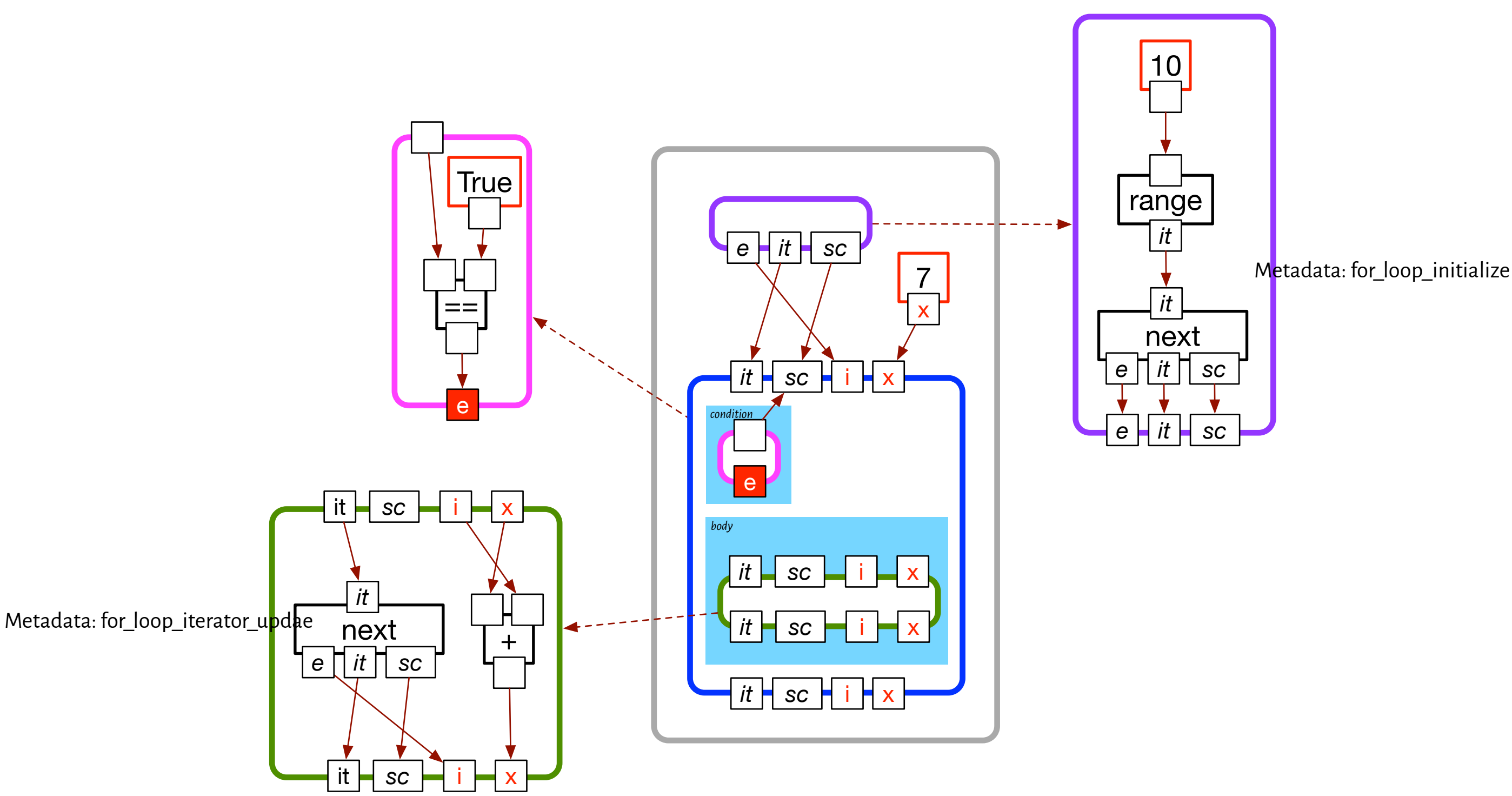
## Examples of substitution



LPV

```
x = 2
if x < 5:
    x = x + 1
else:
    x = x - 3
```

```
x = 7
for i in range(10):
    x = x + i
```



```
x = 7
y = x

for i in range(10):
    x = x + i

print(x)
print(y)
```

