Call parse analysis

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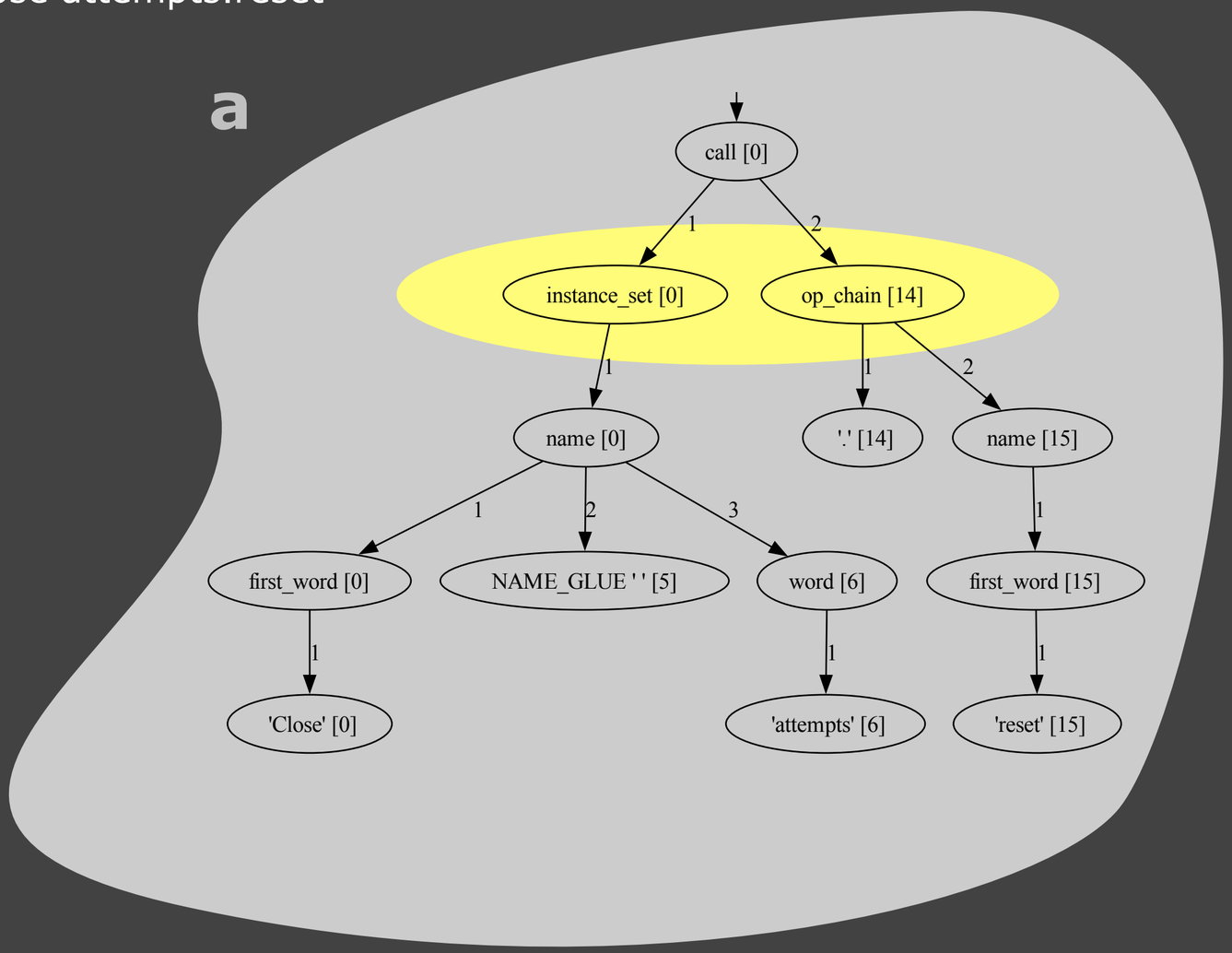
Here we study the Scrall parser tree and named tuples resulting from a parse of a variety of operation chains following an attribute write action so that we can figure out how to populate the actions in the xUML populate tool

```
> statement = {Call_a} Call_a(call=N_a(name='Close attempts'), op_chain=Op_chain_a(components=[N_a(name='reset')]))
```

Close attempts.reset

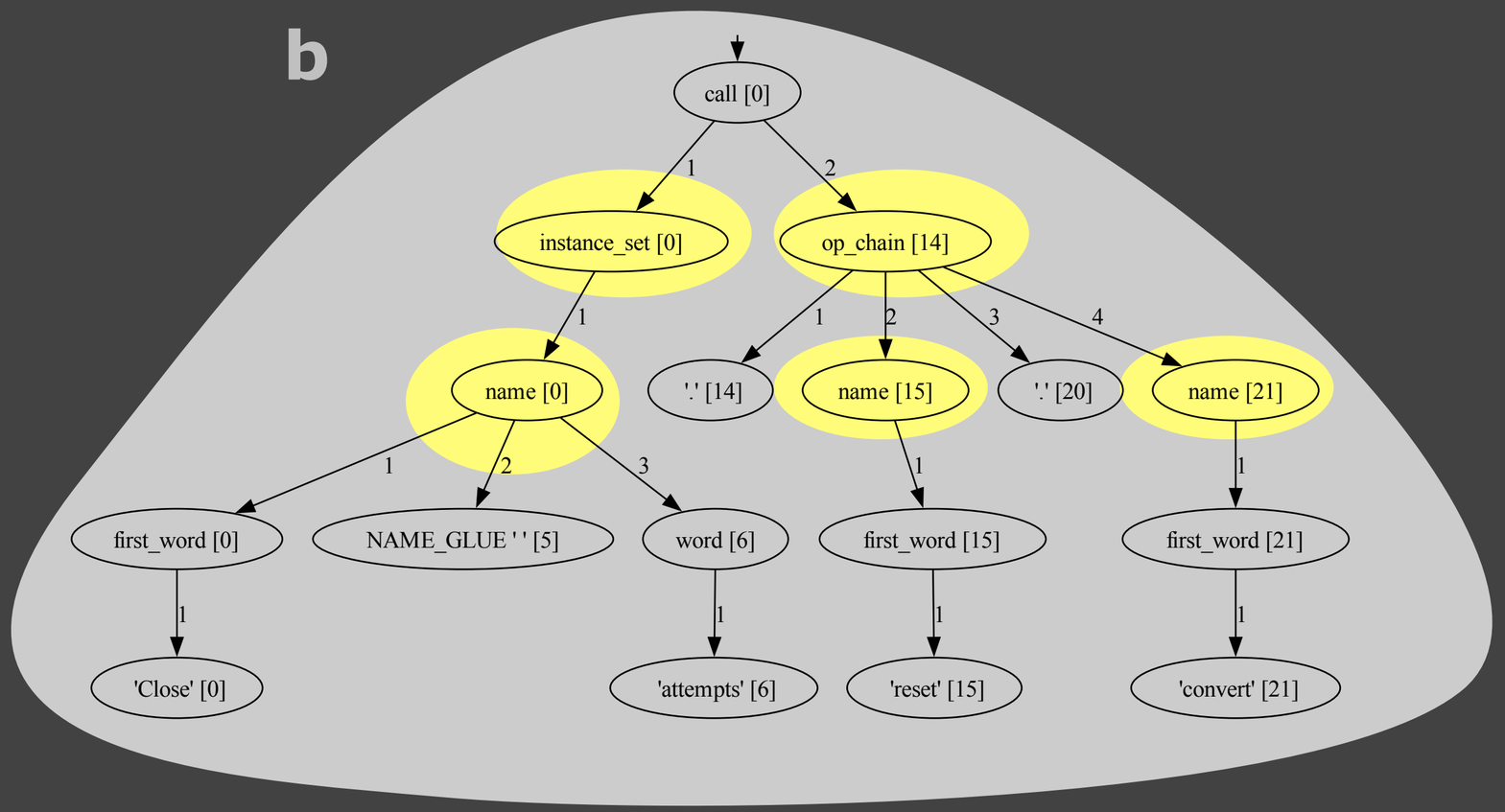


This pattern could be an attribute.type op OR iset.attribute OR iset.method() OR iset.service()

Not the () indicating that no parameters are specified. The parse pattern changes to a different form if one or more parameters are specified.

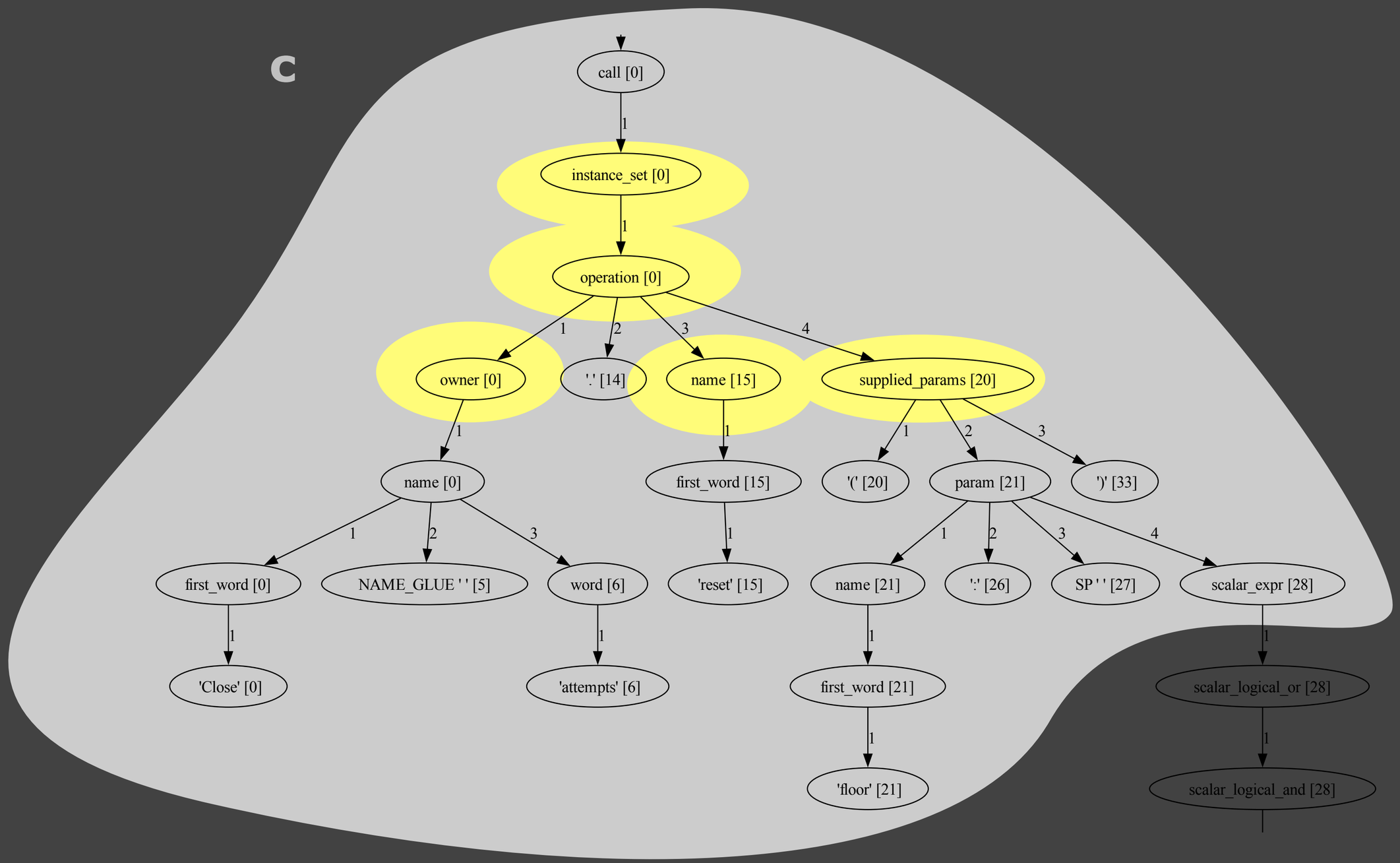
Close attempts.reset.convert

```
call = {N_a} N_a(name='Close attempts')
op_chain = {Op_chain_a} Op_chain_a(components=[N_a(name='reset'), N_a(name='convert')])
```



Close attempts.reset(floor: level)

```
call = {INST_a} INST_a(components=[Op_a(owner='Close attempts', op_name='reset', supplied_params=[Supplied_Parameter_a(pname='floor', sval=N_a(name='level'))])])
  components = {list} [Op_a(owner='Close attempts', op_name='reset', supplied_params=[Supplied_Parameter_a(pname='floor', sval=N_a(name='level'))])]
    0 = {Op_a} Op_a(owner='Close attempts', op_name='reset', supplied_params=[Supplied_Parameter_a(pname='floor', sval=N_a(name='level'))])
      op_name = {str} 'reset'
      owner = {str} 'Close attempts'
      supplied_params = {list} [Supplied_Parameter_a(pname='floor', sval=N_a(name='level'))]
```



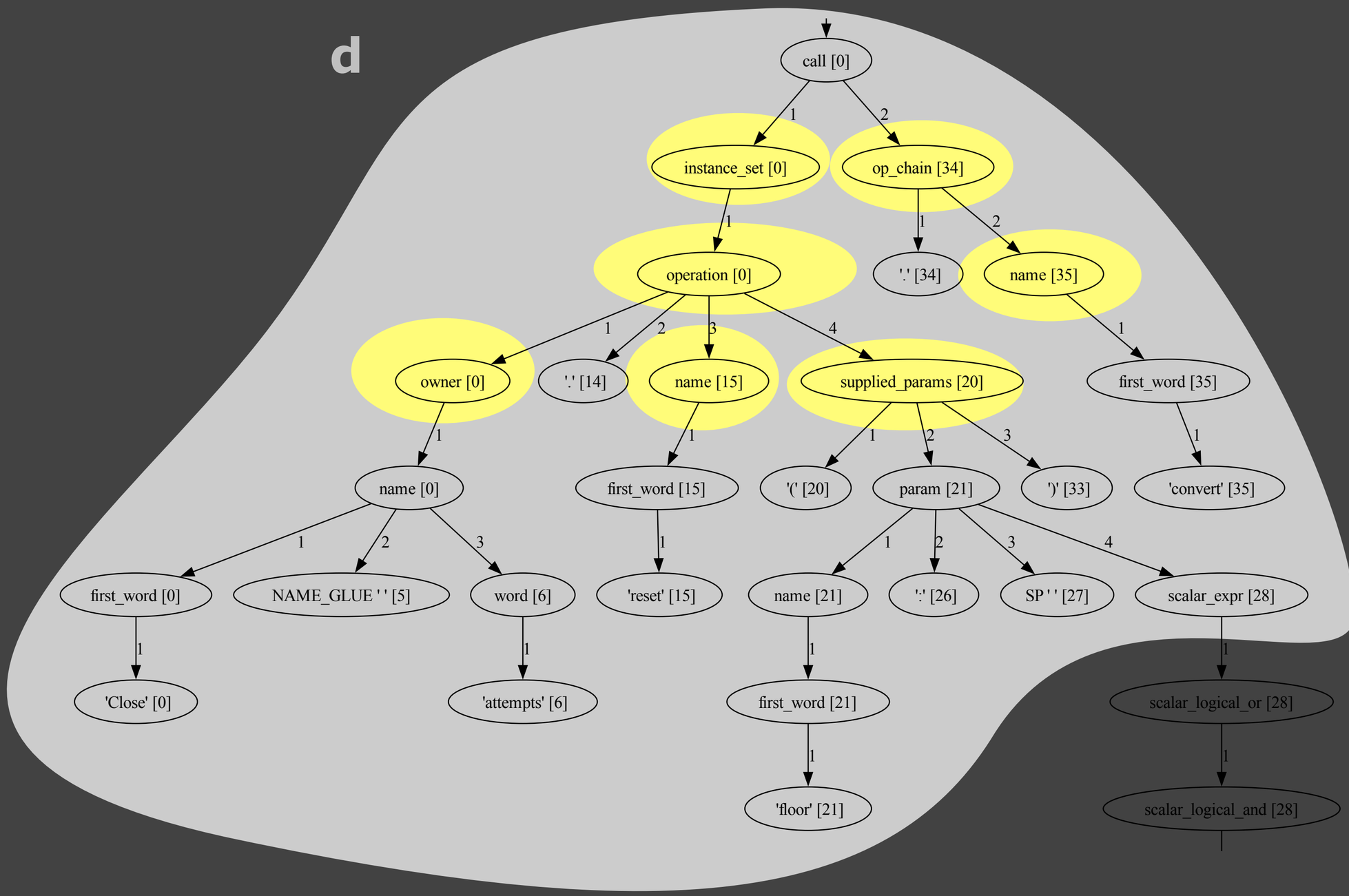
Close attempts.reset(floor: level).convert

call = {INST_a} INST_a(components=[Op_a(owner='Close attempts', op_name='reset', supplied_params=[Supplied_Parameter_a(pname='floor', sval=N_a(name='level'))])])

components = {list} [Op_a(owner='Close attempts', op_name='reset', supplied_params=[Supplied_Parameter_a(pname='floor', sval=N_a(name='level'))])]

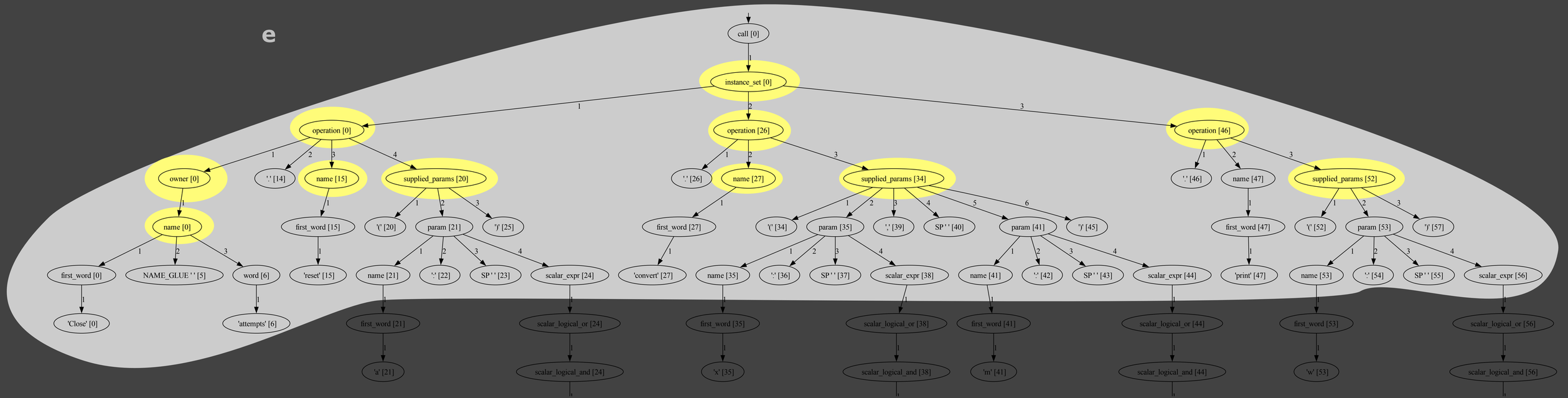
op_chain = {Op_chain_a} Op_chain_a(components=[N_a(name='convert')])

d



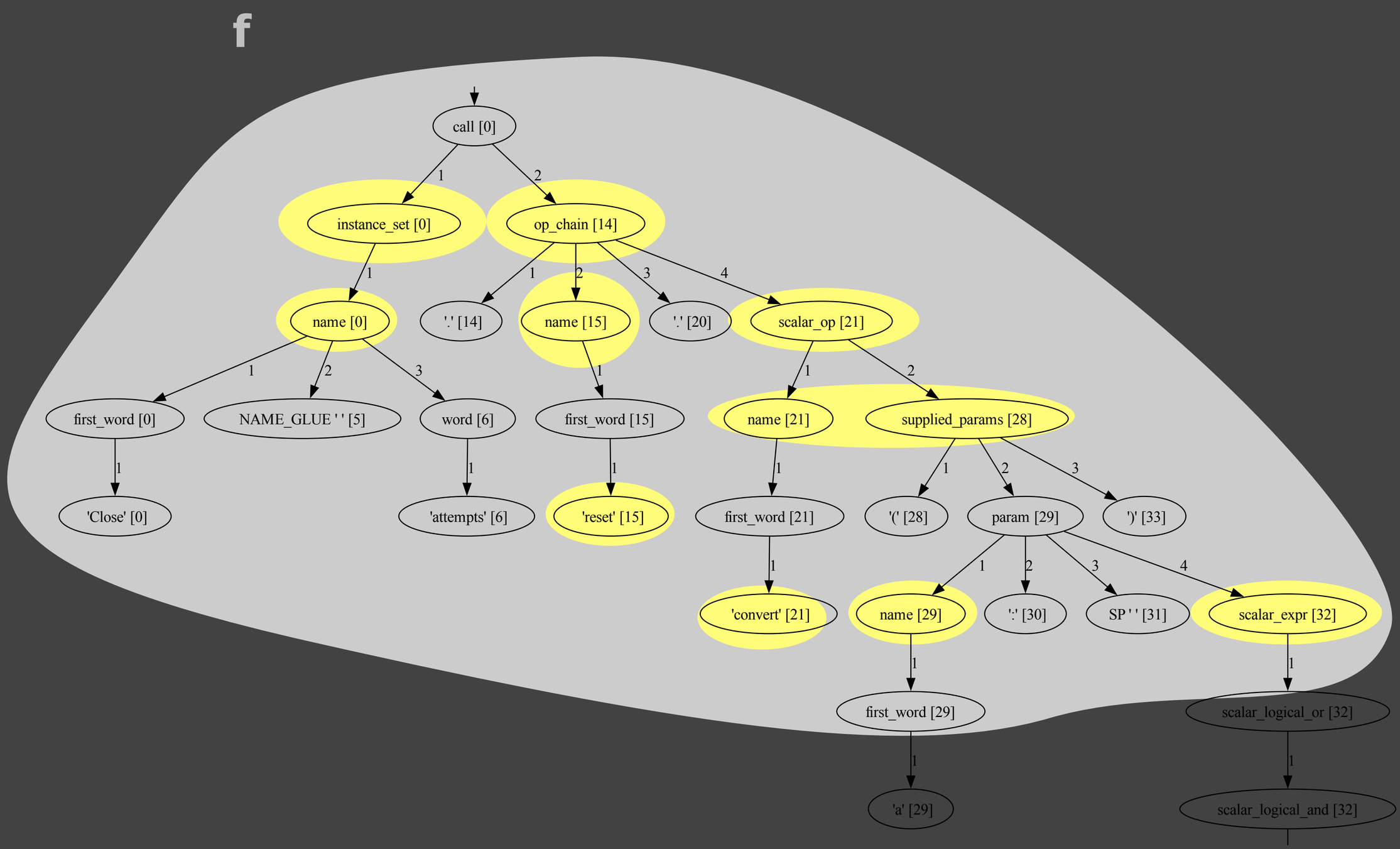
Close attempts.reset(a: b).convert(x: y, m: n).print(w: z)

```
call = {INST_a} INST_a(components=[Op_a(owner='Close attempts', op_name='reset', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(nam...name='n'))]), Op_a(owner='_implicit', o
  components = {list} [Op_a(owner='Close attempts', op_name='reset', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))]), Op_a(owner='_implicit', op_name='convert',
    0 = {Op_a} Op_a(owner='Close attempts', op_name='reset', supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))])
    1 = {Op_a} Op_a(owner='_implicit', op_name='convert', supplied_params=[Supplied_Parameter_a(pname='x', sval=N_a(name='y')), Supplied_Parameter_a(pname='m', sval=N_a(name='n'))])
    2 = {Op_a} Op_a(owner='_implicit', op_name='print', supplied_params=[Supplied_Parameter_a(pname='w', sval=N_a(name='z'))])
op_chain = {NoneType} None
```

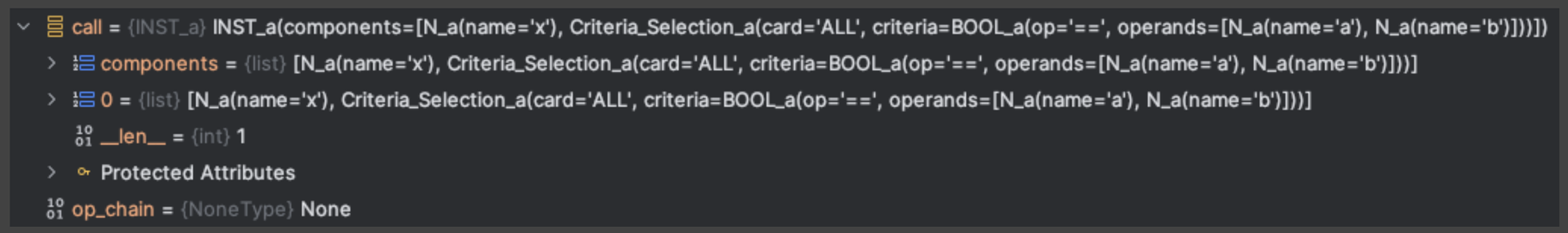


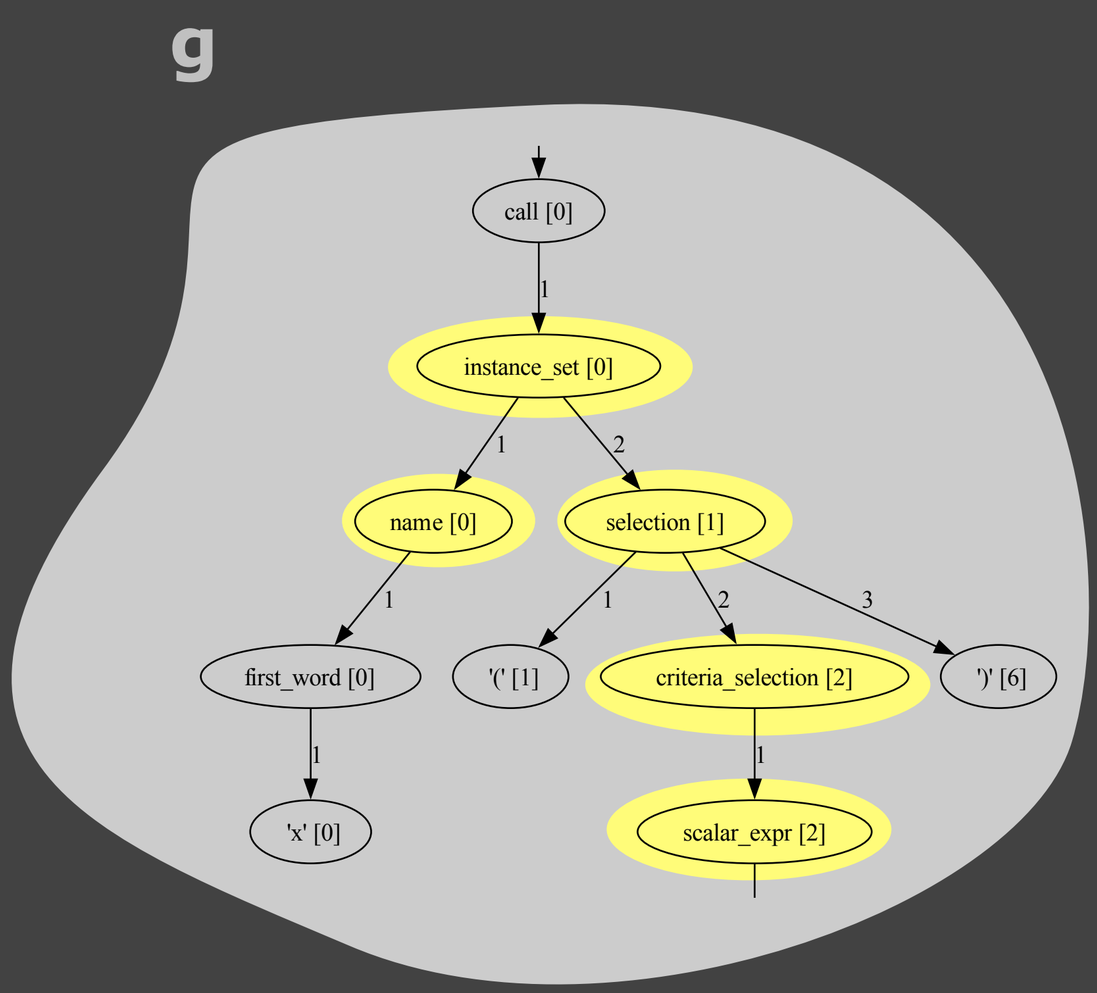
Close attempts.reset.convert(a: b)

```
call = {N_a} N_a(name='Close attempts')
op_chain = {Op_chain_a} Op_chain_a(components=[N_a(name='reset'), Scalar_op_a(name=N_a(name='convert'), supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))])])
  components = {list} [N_a(name='reset'), Scalar_op_a(name=N_a(name='convert'), supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))])]
    0 = {N_a} N_a(name='reset')
    1 = {Scalar_op_a} Scalar_op_a(name=N_a(name='convert'), supplied_params=[Supplied_Parameter_a(pname='a', sval=N_a(name='b'))])
```



x(a: b)


call = {INST_a} INST_a(components=[N_a(name='x'), Criteria_Selection_a(card='ALL', criteria=BOOL_a(op='==', operands=[N_a(name='a'), N_a(name='b')]))])
components = {list} [N_a(name='x'), Criteria_Selection_a(card='ALL', criteria=BOOL_a(op='==', operands=[N_a(name='a'), N_a(name='b')]))]
0 = {list} [N_a(name='x'), Criteria_Selection_a(card='ALL', criteria=BOOL_a(op='==', operands=[N_a(name='a'), N_a(name='b')]))]
__len__ = {int} 1
Protected Attributes
op_chain = {NoneType} None


g
call [0]
1
instance_set [0]
1
2
name [0]
selection [1]
1
1
2
3
first_word [0]
'(' [1]
criteria_selection [2]
')' [6]
1
1
'x' [0]
scalar_expr [2]

x(a: b).y(c: d)

```
call = {INST_a} INST_a(components=[N_a(name='x'), Criteria_Selection_a(card='ALL', criteria=BOOL_a(op='==', operands=[N_a(name='
  components = {list} [N_a(name='x'), Criteria_Selection_a(card='ALL', criteria=BOOL_a(op='==', operands=[N_a(name='a'), N_a(name
    0 = {N_a} N_a(name='x')
    1 = {Criteria_Selection_a} Criteria_Selection_a(card='ALL', criteria=BOOL_a(op='==', operands=[N_a(name='a'), N_a(name='b')]))
    2 = {Op_a} Op_a(owner='_implicit', op_name='y', supplied_params=[Supplied_Parameter_a(pname='c', sval=N_a(name='d'))])
```

```
op_chain = {NoneType} None
```

h