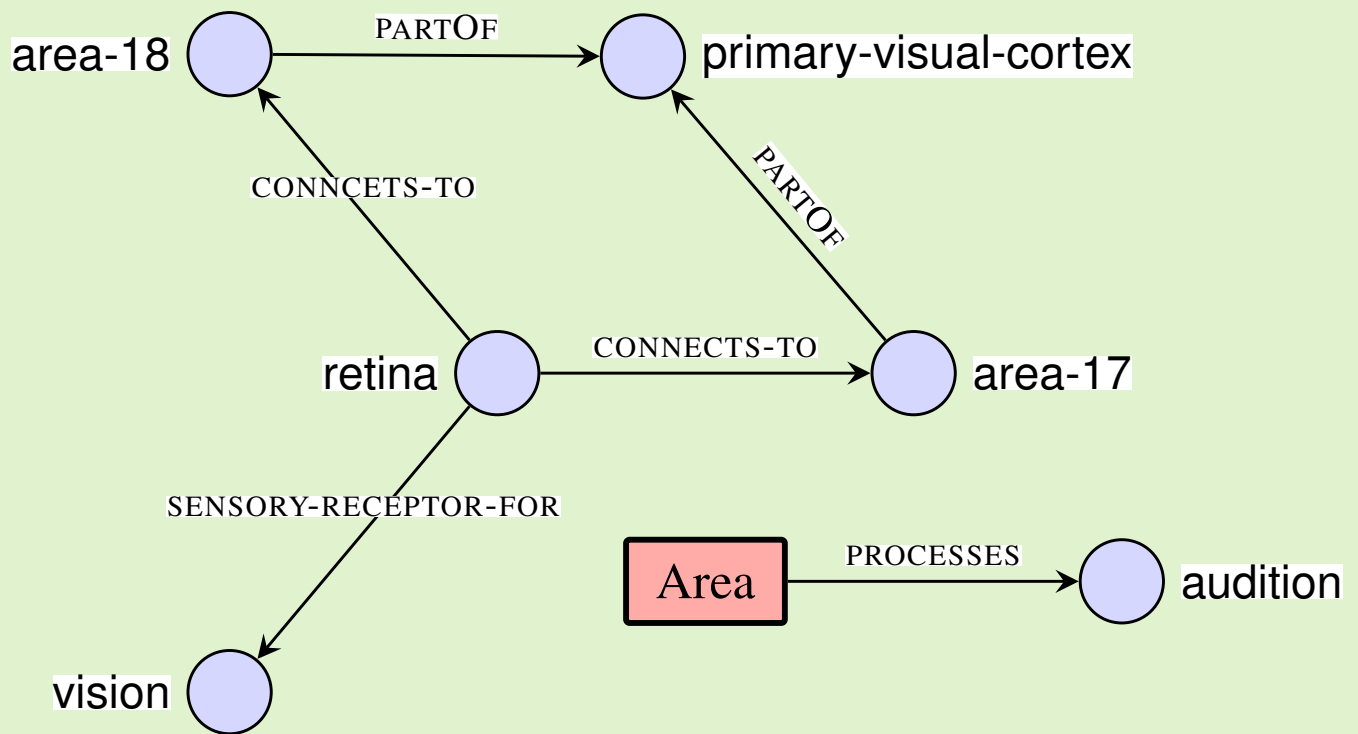


Example of Operational Semantics



RDFLog program:

```

∀ Sense, Area, Area'
  ( is-sensory-receptor-for(Area, Sense) ∧ connects-to(Area, Area')
    → processes(Area', Sense) )
∃ Area ∀ Area'
  ( processes(Area', vision) ∧ is-in(Area', primary-visual-cortex)
    → connects-to(Area, Area') )
∀ Sense ∃ Area ∀ Area'
  ( processes(Area', Sense)
    → is-sensory-receptor-for(Area, Sense) ∧ connects-to(Area, Area') )
  
```

RDFLog answer:

```

∃ X1, X2, X3, X4 (
  is-sensory-receptor-for(retina, vision) ∧ is-sensory-receptor-for(X2, audition) ∧
  is-sensory-receptor-for(X4, vision) ∧
  connects-to(retina, area-17) ∧ connects-to(retina, area-18) ∧ connects-to(X1,
  area-17) ∧ connects-to(X1, area-18) ∧ connects-to(X2, X3) ∧ connects-to(X4,
  area-17) ∧ connects-to(X4, area-18) ∧
  processes(X3, audition) ∧ processes(area-17, vision) ∧ processes(area-18, vision) ∧
  is-in(area-17, primary-visual-cortex) ∧ is-in(area-18, primary-visual-cortex) )
  
```