

## ZOOKEEPER

### Rule Base

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Z1      if      (has x hair)
        then    (isa x mammal)

Z2      if      (gives_milk x)
        then    (isa x mammal)

Z3      if      (has x feathers)
        then    (isa x bird)

Z4      if      (flies x)
              (lays_eggs x)
        then    (isa x bird)

Z5      if      (isa x mammal)
              (eats x meat)
        then    (isa x carnivore)

Z6      if      (isa x mammal)
              (has x pointed_teeth)
              (has x claws)
              (has x forward_pointing_eyes)
        then    (isa x carnivore)

Z7      if      (isa x mammal)
              (has x hoofs)
        then    (isa x ungulate)

Z8      if      (isa x mammal)
              (chews_cud x)
        then    (isa x ungulate)

Z9      if      (isa x carnivore)
              (color x tawny)
              (has x dark_spots)
        then    (isa x cheetah)

Z10     if      (isa x carnivore)
              (color x tawny)
              (has x black_stripes)
        then    (isa x tiger)

Z11     if      (isa x ungulate)
              (has x long_legs)
              (has x long_neck)
              (color x tawny)
              (has x dark_spots)
        then    (isa x giraffe)

Z12     if      (isa x ungulate)
              (color x white)
              (has x black_stripes)
        then    (isa x zebra)

Z13     if      (isa x bird)
              (not (flies x))
              (has x long_legs)
              (has x long_neck)
              (color x (and black white))
        then    (isa x ostrich)

Z14     if      (isa x bird)
              (not (flies x))
              (swims x)
              (color x (and black white))
        then    (isa x penguin)

Z15     if      (isa x bird)
              (not (flies x))
        then    (isa x albatross)
```