

Learn Prolog Now! Exercises

1.3 Exercises

✓ Exercise 1.1

1. VINCENT atom
2. Footmassage variable
3. variable 23 atom
4. Variable 2000 variable
5. big-kahuna-burger atom
6. atom
7. neither
8. atom
9. variable
10. atom

✓ Exercise 1.2

1. complex term, functor: loves, arity: 2
2. atom
3. neither
4. complex term, functor: boxer, arity: 1
5. complex term, functor: and, arity: 2
6. complex term, functor: and, arity: 2
7. neither
8. neither
9. neither
10. neither

✓ Exercise 1.3

facts: 3

rules: 4

clauses: 7

predicates: 7

Heads of rules: $\text{person}(X) \ \& \ \text{loves}(X,Y) \ \& \ \text{father}(Y,Z) \ \& \ \text{father}(Y,Z)$

Goals of rules: $\text{man}(X) \ \& \ \text{father}(X,Y) \ \& \ \text{man}(Y) \ \& \ \text{man}(Y)$

$\text{woman}(X) \ \& \ \text{son}(Z,Y) \ \& \ \text{daughter}(Z,Y)$

continued on back

daughter
son
father
loves
person
woman
man

woman
man
person
loves
father
son
daughter