

# Prolog Demo

Welcome to SWI-Prolog (Multi-threaded, 64 bits, Version 7.2.3)

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For help, use `?- help(Topic).` or `?- apropos(Word).`

1 `?- sport(S),write(S),nl,fail.`

football

baseball

basketball

false.

2 `?- rule(football,players(P),_).`

P = 11.

3 `?- rule(basketball,_,C).`

C = court.

4 `?- history(Sport,inventor(Inventor),City,Year).`

Sport = football,

Inventor = 'Walter Camp',

City = 'New Haven, CT',

Year = date(1869)

Sport = baseball,

Inventor = 'Alexander Joy Cartwright',

City = 'New York City, NY',

Year = date(1845)

Sport = basketball,

Inventor = 'James Naismith',

City = 'Springfield, MA',

Year = date(1891).

5 ?- rule(S,\_,field),write(S),nl,fail.

football

baseball

false.

6 ?- history(\_,\_, 'New York City, NY', date(1845)).

true.

7 ?- history(S, inventor('Alexander Joy Cartwright'), \_, \_); rule(S, players(9), \_).

S = baseball

S = baseball

false.

8 ?- sport(football).

true.

9 ?- history(\_, inventor(I), \_, \_), write(I), nl, fail.

Walter Camp

Alexander Joy Cartwright

James Naismith

false.

10 ?- rule(baseball, Players, Surface).

Players = players(9),

Surface = field.

11 ?- halt.