

### List Prolog

Empty List []

Car and Cdr [X|L]

string are list, "hello" stands for [104, 101, 108, 108, 111]

atoms are symbols 'anatom'

### Higher-order and meta predicates

Call, which is used to perform a query in a program `call(G1, A1, A2, ...)` adds arguments `A1, A2, ...` to goal `G1` and performs the resulting query

e.g.

?- `call(plus(1), 2, X)`.

`X = 3.` % i.e. `plus(1,2,X)`.

### Numerical Expression

`pow(_,0,1)`.

`pow(X,1,X)`.

`pow(X,N,R) :- N1 is N-1, pow(X,N1,R1), R is X*R1.`



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