

Resolução Prova 2024

```

1 % Q1 -> L[1,2,3,4,5,6,7,8]
2
3 %Q2:
4 wN(0):-write(0),!.
5 wN(N):-write(N),N1 is N-1, wN(N1),write(N).
6
7 piramide(0):-wN(0),nl,!.
8 piramide(N):-
9     N1 is N-1,
10    wN(N),nl,
11    piramide(N1).
12
13 %Q3:
14 crialist(0,_,[]):-!.
15 crialist(X,Y,[Y|B]):-
16     X1 is X - 1,
17     crialist(X1,Y,B).
18
19 %Q5:
20 transforma("Despejar jarro 1 no jarro 2", [X,Y], [0,Y1]):- X > 0, Y < 4, Y1 is X + Y, Y1 =< 4.
21 transforma("Despejar jarro 1 no jarro 2", [X,Y], [X1,4]):- X > 0, Y < 4, X1 is X + Y - 4, X + Y > 4.
22 transforma("Despejar jarro 2 no jarro 1", [X,Y], [X1,0]):- Y > 0, X < 3, X1 is X + Y, X1 =< 3.
23 transforma("Despejar jarro 2 no jarro 1", [X,Y], [3,Y1]):- Y > 0, X < 3, Y1 is X + Y - 3, X + Y > 3.

```

≡ ?- Your query goes here ...



Resolução Prova 2023

```
1 %Q1 -> L = [10, 30]
2 p(10).
3 p(-20).
4 p(30).
5
6 %Q2:
7 pto(1,3).
8 pto(-1,5).
9 pto(-1,-2).
10 pto(3,-1).
11 pto(2,4).
12 pto(4,-5).
13
14 quadrante(Q,L) :-
15     findall(p(X,Y), (pto(X,Y), no_quadrante(Q,X,Y)),L).
16
17 no_quadrante(1, X, Y) :- X > 0, Y > 0.
18 no_quadrante(2, X, Y) :- X < 0, Y > 0.
19 no_quadrante(3, X, Y) :- X < 0, Y < 0.
20 no_quadrante(4, X, Y) :- X > 0, Y < 0.
21
22 %Q3:
23 palindromo([]):-!.
24 palindromo([_]):-!.
25 palindromo(L):-
26     reverse(L,L).
27
28 %Q4:
```

Resolução Prova 2022

```
1 %Q1: findall(Nome-Ano, (carro(Nome,b,Ano)),L).
2
```

```
3 carro(fusca,b,1974).
4 carro(gol,v,1980).
5 carro(voyage,p,1978).
6 carro(gol,b,2001).
7 carro(unob,b,2004).
8
9 brancos(L):-
10     findall(Nome-Ano,(carro(Nome,b,Ano)),L).
11
12 %Q2:
13 pares([],[]).
14 pares([X|C],[X|C1]):-
15     R is X mod 2,
16     R == 0,
17     pares(C,C1).
18 pares([X|C],C1):-
19     R is X mod 2,
20     R == 1,
21     pares(C,C1).
22 %2º solução
23 pares2([], []).
24 pares2(L1, L2) :-
25     findall(X, (member(X, L1), X mod 2 == 0), L2).
26
27 %Q3:
```

