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revprova.pl
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revprova.pl
grade(computacao, [ip, calculo1, aed1, aed2, calculo2, pool, poo2]).
historico(marcelo, [ip, calculo1, calculo2]).
historico(francisco, [ip, redes, aed1, calculo1, pool, poo2, calculo3, calculo2]).
historico(joao, [ip, redes, aed1, calculo1, pool, poo2, calculo3, calculo2, aed2]).

formado(X, Y) :-
    historico(X, H),
    grade(Y, D),
    sublistas(D, H).

pendencias_para_formar(X, Y, P) :-
    historico(X, H),
    grade(Y, D),
    difflistas(D, H, P).

sublistas([], _).
sublistas([H|T], X) :-
    membro(H, X),
    sublistas(T, X).

membro(X, [X|_]).
membro(X, [_|G]) :-
    membro(X, G).

inserir_final([], Y, [Y]).
inserir_final([I|R], Y, [I|R1]) :-
    inserir_final(R, Y, R1).

difflistas([], _, []).
difflistas(X, [], X).
difflistas([H|T], G, [H|P]) :-
    \+ membro(H, G),
    difflistas(T, G, P).
difflistas([H|T], G, P) :-
    membro(H, G),
    difflistas(T, G, P).

user:inserir_final/3: (loaded) static, 2 clauses, number_of_rules(1), last_modified_generation(27223), defined
Line: 27
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SWI-Prolog (AMD64, Multi-threaded, version 8.0.2)
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?- formado(marcelo, computacao).
false.

?- formado(francisco, computacao).
false.

?- formado(joao, computacao).
true.

?- pendencias_para_formar(marcelo, computacao, X).
X = [aed1, aed2, pool, poo2] .

?- pendencias_para_formar(francisco, computacao, X).
X = [aed2] .

?- pendencias_para_formar(joao, computacao, X).
X = [] .

?-
```