Exercise Session Informatik III

6. Love Match in Prolog

append/3



remove/3

```
% Entfernt ein Element aus einer Liste
remove(A, [A|B], B).
remove(A, [B|C], D):-
    remove(A, C, E), append([B], E, D).
remove(_, [], []).
| ?- remove(1, [1,2,3], R).
R = [2,3] ?
```



delete/3



resultant/3



sequence/3

```
% Iteriert über den Strings und findet das Resultat
sequence([], A, A).
sequence([_|A], love, B) :- sequence(A, hate, B).
sequence([_|A], hate, B) :- sequence(A, friendship, B).
sequence([_|A], friendship, B) :-
sequence([_|A], mariage, B).
```



```
game/3

game(A, B, C) :-
    resultant(A, B, D),
    sequence(D, mariage, C).

| ?- game("michael", "moira", R).
R = hate ?
yes

plobis
```



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