```
* ancestralLine(L): L is a list of people making up a direct line through
 * parentage
* Example Queries:
* ?- ancestralLine([frodo|T]).
* T = [] ;
* T = [drogo];
* T = [drogo, fosco];
* T = [drogo, fosco, largo];
* T = [drogo, fosco, largo, balbo];
* T = [drogo, fosco, largo, berylla];
* T = [drogo, fosco, tanta];
* T = [drogo, ruby];
* T = [primula];
* false.
* ?- ancestralLine([bilbo/T]).
* T = [] ;
* T = [bungo];
* T = [bungo, mungo];
* T = [bungo, mungo, balbo];
* T = [bungo, mungo, berylla];
* T = [bungo, laura];
 * T = [belladonna];
 * false.
*/
ancestralLine([_]).
ancestralLine([Child | L]) :-
 parent(Parent, Child),
 ancestralLine([Parent | NewL]),
 L = [Parent | NewL].
```

```
* friendGroup(N,G): G is a group of N people who are all friends with each
 * other.
 * You can use the friend facts from SA #5 for testing
 * Example Query:
 * ?- friendGroup(3,X).
 *X = [deshawn, anna, ali];
 *X = [deshawn, ali, anna];
 *X = [coco, elena, lucas];
 * X = [coco, lucas, elena] \dots
friendGroup(N, G) :-
  length(G, N),
  allFriends(G).
friends(X, Y) :-
  friend(X, Y);
  friend(Y, X).
isFriendsWithAll(_, []).
isFriendsWithAll(X, [P | L]) :-
  friends(X, P),
  isFriendsWithAll(X, L).
allFriends([_]).
allFriends([P | G]) :-
  isFriendsWithAll(P, G),
  allFriends(G).
```

```
/**
  * removeDuplicates(X,Y): X and Y are lists and Y is X with all the
  * duplicates removed. Do not use sort.
  *
  * Example Query:
    * ?- removeDuplicates([1,0,2,0,3,3,6,0,4],X).
    * X = [1,2,3,6,0,4]
    */
removeDuplicates([],[]).
removeDuplicates([XH | XT], [YH | YT]) :-
    % Pop X until X's head is not a dup.
    (member(XH, XT), removeDuplicates(XT, [YH | YT]));
    % Assert heads are equal and proceed.
    (XH = YH, removeDuplicates(XT, YT)).
```