60/60

Project 1 2/26/20

Version 1

unnest_v1(List, FlatList) ← FlatList is the unnested list of list List.

```
unnest_v1([],[]).
unnest_v1([X|List], FlatList) ←
                        unnest_v1(X, Xs),
                        unnest_v1(List, ListNew),
                        append(Xs, ListNew, FlatList).
unnest_v1(List, [List]).
```

Version 2

```
unnest_v2(List, FlatList) ← FlatList is
the unnested list of List.

unnest_v2(List, FlatList) ←unnest_v2(List,[],FlatList).

unnest_v2([], FlatList, FlatList).

unnest_v2([X|List], Acc, FlatList) ←
                    unnest_v2(List, Acc, List2),
                    unnest_v2(X, List2, FlatList).

unnest_v2(X, Acc, [X|Acc]) ←
                    X \= [],
                    X \= [_|_].
```

Equal Lists

equals(List1, List2) ← List1 and List2 contain the same elements

equals([],[]).
equals([X],[X]). ← This is not really needed.

equals(List1, List2) ← unnest_v1(List1, FlatList1),
unnest_v1(List2, FlatList2),
sublist(FlatList1, FlatList2),
sublist(FlatList2, FlatList1).

clever!