

## recursion

We have multiple ways to use recursion: in the database and in our queries for example we can make properties transitive.

```
dadof(you,dad).  
dadof(dad,granddad).  
dadof(granddad, petethegreat).  
momof(petethegreat,eve)  
ancestorof(X,Y):- dadof(X,Y).  
ancestorof(X,Y):- momof(X,Y).  
%naive: ancestorof(X,Y):- ancestorof(X,Z),ancestor(Z,Y).
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%naive: ancestorof(X,Y):- ancestorof(X,Z),ancestor(Z,Y).  
  
%better:  
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## recursion on lists

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So when we search for members we can simply search

```
?- member(anvar,[roald, winand, anvar, alexey, sjoerd])
```

which would say yes