Logic Programming

Exercise 1

We will build a genealogy that covers relations in a family. Consider a genealogy database consisting of the following predicates:

```
female(x), male(x), parent(x,y), mother(x,y), father(x,y), sister(x,y), brother(x,y)
```

Define rules allowing you to determine the following relations:

```
grandfather(x,y), grandmother(x,y), grandparent(x,y), son(x,y), daughter(x,y), child(x,y), grandson(x,y), granddaughter(x,y), grandchild(x,y)
```

Exercise 2

Define the following predicates to determine if a list:

- a. has an even number of elements
- b. is a palindrome (i.e. it reads the same from left to right as it does from right to left).

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