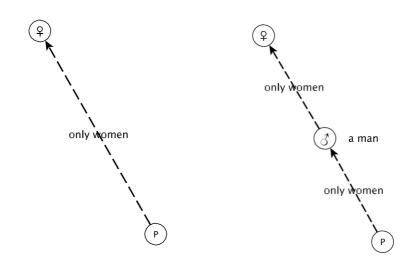
OWL and SWRL modeling

Define a vocabulary (classes and properties) and SWRL rules for representing the following definitions:

- 1. The uncle of a person is a brother of the mother or a brother of the father of this person
- 2. The women-only-ancestors of a person are his/her mother, mother of the mother, mother of the mother, etc. (see figure, left)
- 3. The almost-women-only-ancestors of a person are his/her ancestors connected to him/her through a chain containing only women except for one man (see figure right)



```
Q1:
mother(?X, ?M), brother(?M, ?Y) -> uncle(?X, ?Y)
father(?X, ?F), brother(?F, ?Y) -> uncle(?X, ?Y)
```

Q2:

```
mother(?X, ?M) -> woAncestor(?X, ?M)
mother(?X, ?M), woAncestor(?M, ?A) -> woAncestor(?X, ?A)
```

Q3:

```
woAncestor(?X, ?W), father(?W, ?F), woAncestor(?F, ?Y) -> awoAncestor(?X, ?Y) father(?X, ?F), woAncestor(?F, ?Y) -> awoAncestor(?X, ?Y) woAncestor(?X, ?F), father(?F, ?Y) -> awoAncestor(?X, ?Y)
```