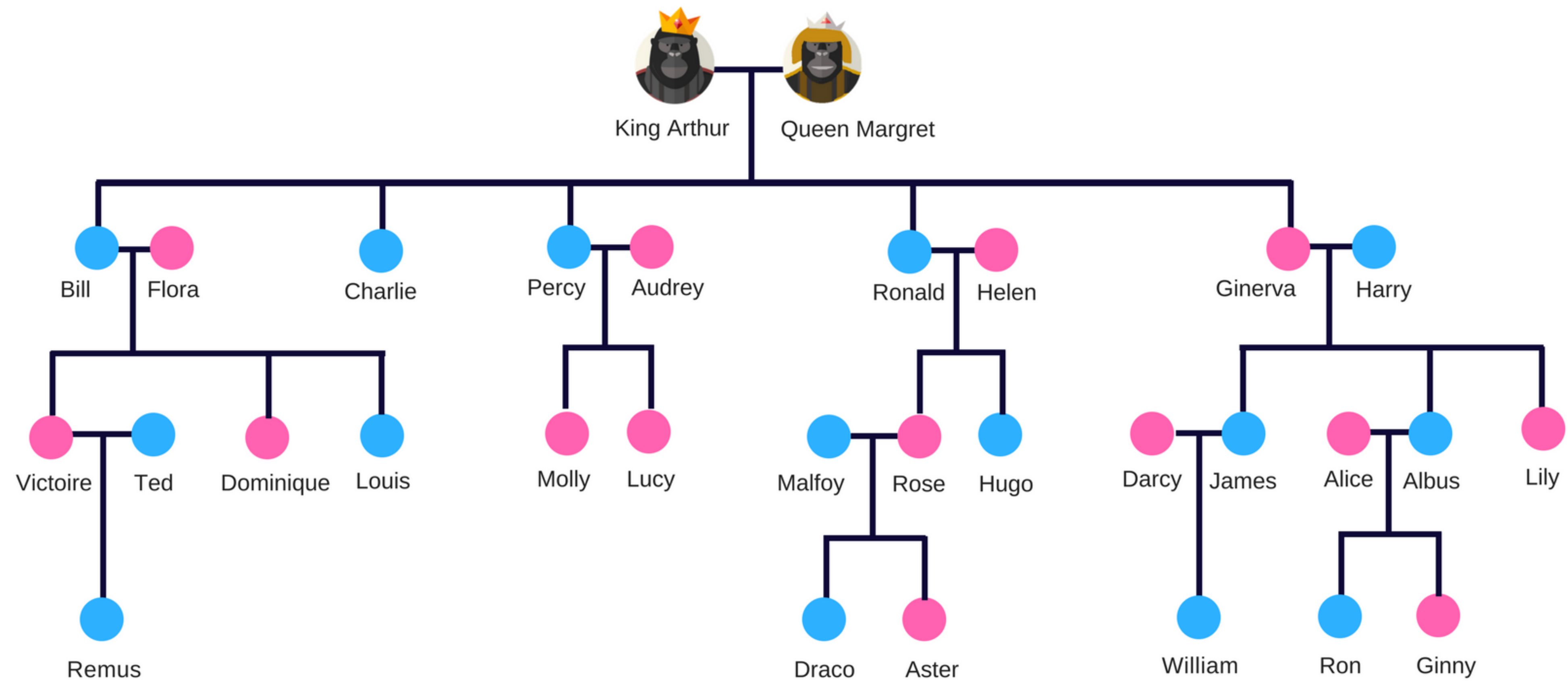




Family Tree



Problem Context

Our story is set in the planet of Lengaburu.....in the distant, distant galaxy of Tara B. And our protagonists are King Arthur, Queen Margret & their family.

King Arthur is the emperor of Lengaburu and has been ruling the planet for the last 350 years (they have long lives in Lengaburu, you see!). Let's write some code to get to know the family.

This coding problem is for backend and fullstack developers and tests object oriented fundamentals.



Meet The Family

Write code to model out the King Arthur family tree so that:

- You should be able to add a child to any family in the tree
- Given a 'name' and a 'relationship', you should output the people corresponding to the relationship.

Simple, right? But remember.. our evaluation is based not only on getting the right output, but on how you've written your code.

Sample Input/Output

Input needs to be read from a text file, and output should be printed to console. Your program should execute and take the location to the test file as parameter.

↕ Input format to add a child:

```
"Mother's-Name" "Child's-Name" "Gender"
```

↕ Input format to find the people belonging to a relationship:

```
Input : "Name" "Relationship"
```

↕ Output format on finding the relationship:

```
Output : "Name1" "Name2"
```

↕ Example test file:

```
Flora Minerva Female  
Remus Maternal-Aunt
```

↕ Output on finding the relationship:

```
Dominique Minerva
```

Relationships To Handle

There are many relations that could exist but at a minimum, your code needs to handle these relationships

| Relationships | Paternal uncle | Maternal aunt | Sister-in law | Brother-in-law | Children | Son | Daughter | Siblings |
|---------------|-------------------|------------------|----------------------------------------|--------------------------------------------|----------|-----|----------|----------|
| Definition | Father's brothers | Mother's sisters | Spouse's sisters, Wives of siblings | Spouse's brothers, Husbands of siblings | | | | |

Submitting Code

1. Please compress the file before upload. We accept .zip, .rar, .gz and .gzip
2. Upload the file in a way that makes it easy for us to get it running. This will factor into your evaluation.
3. Usage of non-essential 3rd party libraries will affect your evaluation.
4. We advise not to put your personal details in your solution.

Need **HELP?**

1. What do we look for in your code is detailed out here —> www.geektrust.io/how-we-evaluate
2. We know it's possible you may have more questions on the coding challenge. We're available on our Slack chat channel for you. You can come in and ask questions and get all the support you need (click [here](#) to ask for a Slack invite).