



My code is my resume

"Geektrust has tie ups with some of the best startups. And all one got to do is write code, the rest is taken care by the geektrust team."

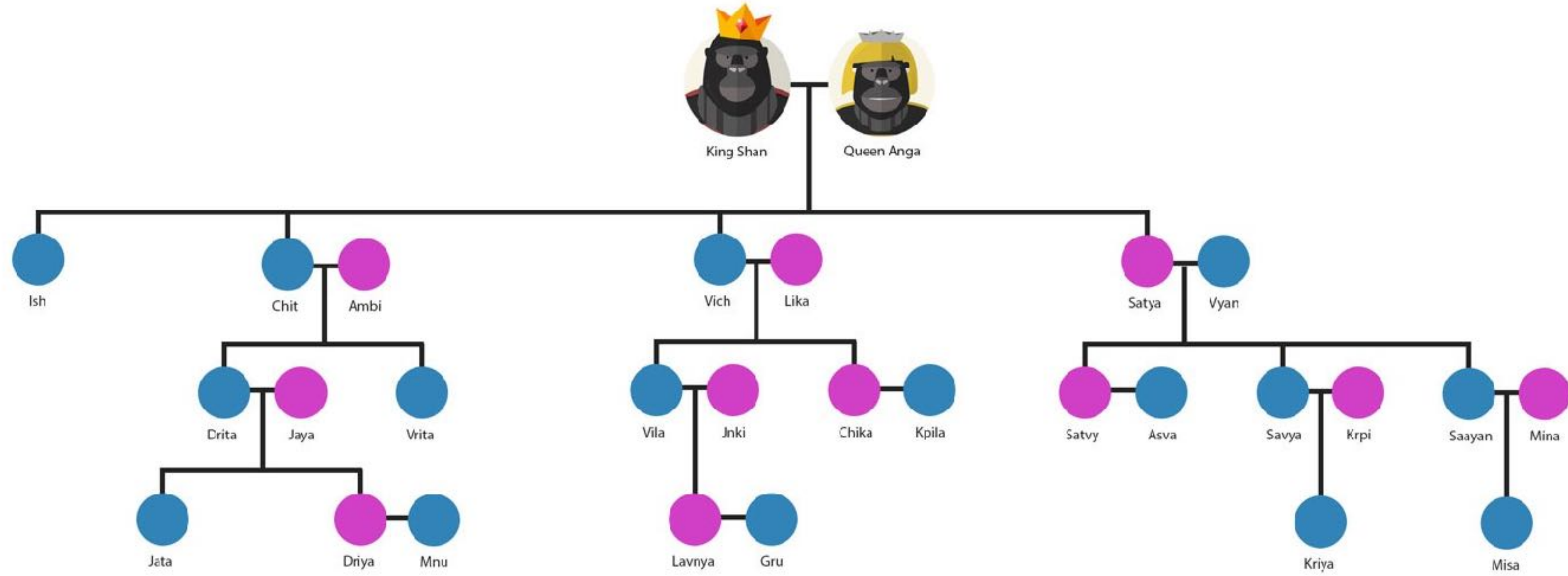
- Athira, now works at [Sahaj Soft](#)

Athira, Souranil and many more developers have solved Geektrust coding challenges to find great jobs.

- * **Get feedback** on your coding skills. Detailed, handcrafted feedback on your code.
- * **Get priority** and be treated as a premium candidate to directly connect with decision makers at companies.
- * **Get membership** and win an exclusive Geektrust DEVELOPER t-shirt given when you write good code.

What we look for in your code - It's not just about getting output, but how you get it. We care about how well modelled your code is, how readable, extensible, well tested it is. Have questions on the challenges or our evaluation? Ping us on the Geektrust [Slack channel](#).

FAMILY TREE



The Shan 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 Shan, Queen Anga & their family.

King Shan 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



PROBLEM 1: MEET THE FAMILY

Model out the Shan family tree so that when given a 'name' and a 'relationship' as an input, the output are the people that correspond 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: Person = Ish; Relation = Brothers
Expected Output: Chit, Vich

PROBLEM 2: A NEW BORN

There are some expectant mothers in the Shan family. Your code should be able to add a child into a particular family in the tree.

After that, when given a 'name' and a 'relationship' as an input, the output should be the person/people that correspond to the relationship.

↕ Sample Input & Output

Input: Mother = Lavanya; Daughter = Vanya
Input: Person = Jnki; Relation = Grandchildren
Expected Output: Vanya

PROBLEM 3: THE GIRL CHILD

King Shan loves his family but has a soft corner for his granddaughters and great-granddaughters. At every family get together he bestows gifts to the mother with the most girl children. Write code to determine which mother has the most girl children.

In addition, you should be able to add a child into a particular family in the tree.

↕ Sample Input & Output

Expected Output: Jaya, Jnki, Satya, Lika

Input: Mother = Jaya; Daughter = Drini
Expected Output: Jaya

PROBLEM 4: WHO'S YOUR DADDY?

Since the empire has been around for four generations, there are many folks in Lengaburu who do not know the relationship between the royalty. So, given two names as input, the output should be the relationship between the two.

Sample Input & Output

Input: Person = Kriya; Relative =
Saayan
Expected Output: Paternal Uncle

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 uncle	Paternal aunt	Maternal aunt	Sister-in law	Brother-in-law	Cousins	Father	Mother	Children	Son	Daughter	Brothers	Sisters	grand daughter
Definition	Father's brothers, Father's brother-in-laws	Mother's brother, Mother's brother-in-laws	Father's sister, Father's sister-in-laws	Mother's sister, Mother's sister-in-laws	Spouse's sisters, Wives of siblings	Spouse's brothers, Husbands of siblings	Children of parent's siblings								

SUBMITTING CODE

1. Please compress the file before upload. We accept .zip, .rar, .gz and .gzip
2. Name of the file should be the problem number you are solving. For e.g. if you have solved problem 3, please name your file 'problem 3.zip'. If you have solved problem 1 and 2, please name it 'problem12.zip' etc..
3. Upload the file in a way that makes it easy for us to get it running. This will factor into your evaluation.
4. Usage of non-essential 3rd party libraries will affect your evaluation.
5. We advise not to put your personal details in your solution as we maintain your anonymity with a company until there is genuine interest from them.

NEED HELP?

1. We know it's possible you may have more questions on the coding challenges. So we're available on our Slack chat channel for you. You can come in and ask questions and get all the support you need.
2. Just send a mail to devs@geektrust.in saying 'Add to Slack' and we'll send you an invite to join our channel, and we will help you out.
3. *You can also submit incomplete solutions if you want feedback to make sure you're going in the right direction. Just make sure to add INCOMPLETE as a prefix to the filename you're uploading e.g - INCOMPLETE-problem12.zip*

WHAT NEXT?

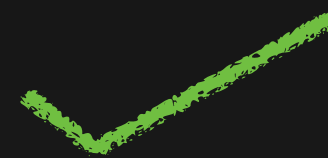
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