**Zoho Corporation - Programming Test**

**Question**

1. Given a family and extended family information, you need to find the list of eligible person one can marry.

For a male, a match will be,

\* his father's sisters' daughter

\* his mother's brothers' daughter

For a female, a match will be,

\* her father's sisters' son

\* her mother's brothers' son

The family information will be given in the format of

<person's name>, <gender>, <father's name>, <mother's name>

You need to list the eligible matches for a given person.

Assume names are unique.

Example:

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**Input:**

**Family information:**

Ram, Male, Ramesh, Revathy

Bavana, Female, Ramesh, Revathy

Agilan, Male, Ram, Darshini

Yamini, Female, Elango, Bavana

Megala, Female, Elango, Bavana

Person name: Agilan

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**Output**: Yamini, Megala

Think of this problem and write a data model that helps to identify the eligible matches

i.e C - structures or C++/Java classes.

**Answer**

**Class/Structure And Members**

Class Families

String familyHead; PK

String personName; FK

String fathersName;

String mothersName;

String[] getFamilityDetails(String)

Class Individuals

String personName; PK

String gender;

Date DOB;

String PlaceOfBirth;

String fathersName;

String mothersName;

Void Create Individuals (String, String, Date, String, String, String)

String[] getIndividualDetails(String)

Class Relationship

String personName; FK

String[] individuals;

String[] relationshipType;

String[] DateofRelation\_Started;

Void Create Individuals (String, String, Date, String, String, String)

**Conceptual Data Model**

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1.. \* 

1.. \* 

1.. \* 

0.. \*

1

Relationship

Families

Individuals