

MAPS – RELATIVES

Lab Goal : Using a map of sets to describe common relationships between keys and values.

Lab Description : Take list of people and to whom each person is related. Then, build a list for each person and all of the people related to that person.

Sample Data (read in from relatives.dat) :

```
14
Jim Sally
Fred Alice
Jim Tom
Jim Tammy
Bob John
Dot Fred
Dot Tom
Dot Chuck
Bob Tom
Fred James
Timmy Amanda
Almas Brian
Elton Linh
Dot Jason
Dot
```

Files Needed ::

```
Relatives.java
RelativesRunner
.java
relatives.dat
```

algorithm help

This program must be written using a Map of Sets.

```
private Map<String,Set<String>> map;
```

The Map will store the key(person) and a value(Set of the people related to that person).

Sample Output :

```
Almas is related to Brian
Bob is related to John Tom
Dot is related to Chuck Fred Jason Tom
Elton is related to Linh
Fred is related to Alice James
Jim is related to Sally Tammy Tom
Timmy is related to Amanda

Dot is related to [Chuck, Fred, Jason, Tom]
```