

Lab Goal : This lab was designed to teach you how to use a Map.

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

Sample Data :

```
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
Lab08c.java
```

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]

Is Dot directly related to Tom? Yes
Is Dot directly related to Alice? No
```