



Input data for the application is stored in a file on disk. The file has the following structure:

```
<child name> <parent name>
```

Example:

```
Adam Ivan
Marko Stjepan
Stjepan Adam
Robert Stjepan
Fran Ivan
Leopold Luka
```

Implement an application in Java that will generate the following output based on the above input file:

```
Ivan
  Adam
    Stjepan
      Marko
      Robert
  Fran
Luka
  Leopold
```

Have in mind two border cases:

1. child has more than one parent – in this case, output the parents independently of each other
2. cyclic relationships (A -> B -> C -> A) – this is not valid, and you should raise an exception

Other requirements:

- The project should use Java 8+.
- The project should use Maven as build tool. This implies that the application should be buildable and testable through Maven's command-line tool.
- The project should be unit-tested using JUnit.
- Please use Git for source control. You can push the project to a free repository such as [GitHub](#), [GitLab](#)/[Bitbucket](#). Alternatively, you may [create a Git bundle](#) send it to us.
- Project must have a readme file in the project's root that describes how to run the application (as well as expected output), how to run the tests, as well as any other details we should be aware.
- The application should be as operating system agnostic as possible.