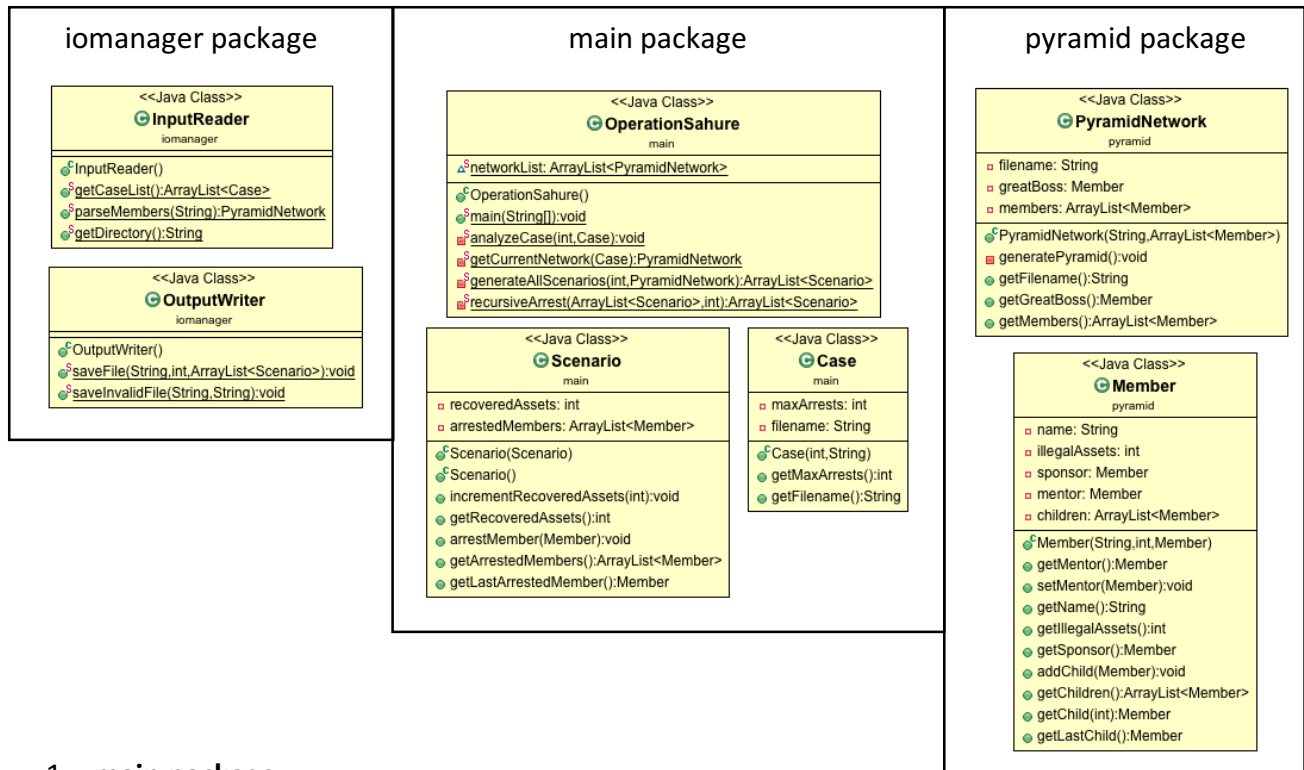


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Project 2: Operation Sahure UML Design



1. main package

- OperationSahure:** Contains main method and is responsible for determining which scenarios return the maximum assets.
- Case:** A case represents a specific police mission on a certain pyramid scheme in which they will arrest a certain number of its members. It consists of a network log file containing the pyramid structure data and the number of maximum arrests which can be made.
- Scenario:** Since the police only has the resources to arrest a certain number of members, a scenario represents a specific selection of members that they will arrest. It consists of a list of arrested members and the total assets recovered by the police.

2. iomanager package

- InputReader:** This class is responsible for managing all input files. It should read a file called input.txt which contains a list of cases to be evaluated.
- OutputWriter:** This class is responsible for writing results to output files.

3. pyramid package

- PyramidNetwork:** Represents the hierarchical structure of the members in a pyramid scheme.
- Member:** Represents a member of the pyramid scheme.