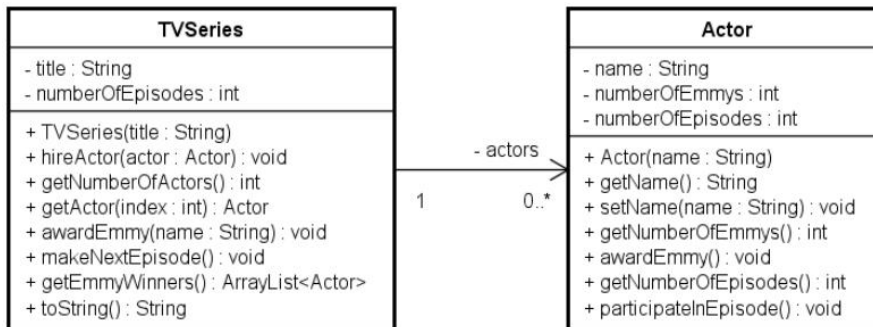


Exercises, SDJ1

Exercise



Implement class `TVSeries` and class `Actor` exactly as show in the UML class diagram above.

For class `TVSeries` implement:

- All fields including the association
- A 1-argument constructor setting the title of the TV series to the one specified, while `numberOfEpisodes` is set to zero. Initially no actors are hired for the TV show
- A `hireActor` method adding the specified actor to the collection of actors
- A `getNumberOfActors` method returning the current number of hired actors
- A `getActor` method returning an actor at a specified index
- An `awardEmmy` method that will find the actor with the specified name among the collection of actors, and award this actor an Emmy
- A `makeNextEpisode` method incrementing the `numberOfEpisodes` field for both the TV series and for all actors in the cast by one
- A `getEmmyWinners` method returning an `ArrayList` of all actors who have won at least one Emmy
- A `toString` method returning a string with the name of the TV series, the number of episodes in the TV series, and the names of all actors in the cast