

Description:

For the first question, I added 4 filters strategies, two of them are containers which allows you to combine arbitrary filters together to implement conjunction and disjunction.

For the second question, I added a function which accepts a TVShow to set up a prototype episode, I also created two different add methods that use the prototype episode. The first receives no parameters, adds the prototype episode that was set, and the second receives a file path to provide more flexibility as in most circumstances the client will not want to add multiple episodes with the same file path. As a result of this I chose not to use cloning, instead gather the relevant fields and use the Episode constructure. I should also mention that both of these methods ensure the episode number corresponds to the TVShow list.

For the final question, I used Junit framework, and had black-box and white-box testing implements for each of the relevant classes.

