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Data Structures Lab 4

Running the file:

- The makefile should allow everything to be compiled and run with just
make
test

Task 1:

Aside from the virtual function which will be overridden in TV class, the public functions will be available from derived classes. The private variables will not be but they will be able to be accessed using the helper functions.

Task 2:

Credits from the movie class and the list for seasons and episodes in the TV class will be available for instances of those respective classes. Though, while initiated only as class Shows, they will not be set.

Task 3:

```
now playing: sn2ep3
Press 1 for an instance of Show.
Press 2 for an instance of Movie.
Press 3 for an instance of TV Show.
Press 4 for an instance of a MOVIE declared as a Show
Press 5 for an instance of a TV Show declared as a Show
3
enter title:
this
enter description:
stuff
Do you want to set episodes details? (y or n)
y
enter season number:
2
enter episode number:
1
enter episode name:
sldkfj
Do you want to continue?
n
Details:
    this
    stuff
Do you want to continue?(y or n)
n
```

We initially had a few issues with some of the tests but once we fixed those, the navigation and entering/getting information seemed to go smoother than expected.

A.

While many programs that are done using inheritance and polymorphism could be done without, using these methods makes the program a lot cleaner and more efficient. These are qualities that are important in computer science.