We are writing a media library class that maintains a library made up of Media objects.

MusicMedia extends Media and has these properties:

```
String label
String asin
String releaseDate
String title
String artist
```

All properties should be accessible externally as read-only properties

there is also a String getFormat method which all classes which extend the class MUST override

Fill in the MusicMedia class

MovieMedia extends Media and has these properties:

```
String studio
String asin
String mpaaRating
String director
String releaseDate
String title
```

All properties should be accessible externally as read-only properties

there is also a String getFormat method which all classes which extend the class MUST override

Fill in the MovieMedia class

A CD is a specific type of MusicMedia

It has one extra property: Integer numberOfDiscs which should be exposed as read-only It should return a format of "CD"

Fill in the CD class

The **DVD** class is a specific type of **MovieMedia**

It has one extra property: Integer numberOfDiscs which should be exposed as read-only It should return a format of "DVD"

Fill in the **DVD** class

The **DigitalMusic** class is a specific type of **MusicMedia**

It has one extra property: **String purchaseModel**It should return a format of "Digital Music"

Fill in the **DigitalMusic** class

The **DigitalMovie** class is a specific type of MovieMedia

It has one extra property: String purchaseModel It should return a format of "Digital Movie"

Fill in the **DigitalMovie** class

All of the specific media types should be Catalogable

Catalogable means they have a **String getCatalogString** method which returns a String listing all of its properties

Make all media items **Catalogable** (do this in all specific media types, not in the more general classes)

DigitalMusic and DigitalMedia are both also Streamable

Streamable means they have a String getPurchaseModel method

The **MediaLibrary** class maintains a list of Media items and has methods that return the number of items in the library as well as the number of items of a specified format.

Write tests for the **MediaLibrary** methods

If you have time, write tests for the CD, DigitalMusic, DVD, and DigitalMovie classes