**Data Mining the Internet Movie Data Base**

Websites like the Internet Movie DataBase (<http://www.imdb.com/>) maintain extensive information about movies and actors. If you search for a movie on the web site, a web page showing information about the movie is displayed. It also shows all the actors in the movie. If you click on the link for an actor, you are taken to an actor’s page, where you can find information about him or her, including the movies they are in. Try it out if you have not used this website before.

This assignment should give you some insight into the working of such web sites. Here is what I would like you to do with the data.

1. Given two titles of a movie, each representing the set of actors in that movie:
   1. Find all the actors in those movies
   2. Find the common actors in the two movies
   3. Find the actors who are in either of the movies but not both (use symmetric difference)
2. Given the actor’s name, find all the actors with whom he or she has acted

The data is available has a huge, compressed text file at [www.imdb.com/interfaces](http://www.imdb.com/interfaces) that lists each actor followed by their movies and the year the movie was made. I posted a small sample that you can work with for this assignment.

Repeatedly prompt the user until some sentinel is entered. If two movies are entered, they should be separated by the appropriate operator: &, |, - to indicate the appropriate set operation to be performed (unions, intersection and symmetric difference). If an actor is entered, find all the actors that he or she has been in movies with.

'''elif(moviesStrip[i] == ')') and (moviesStrip[i+1] == '|'):

movie1 , movie2 = inputName.split("|")

printActors( moviesDictionary , movie1 , movie2 , '|')

findMovie = True

break

elif(moviesStrip[i] == ')') and (moviesStrip[i+1] == '-'):

movie1 , movie2 = inputName.split("-")

printActors( moviesDictionary , movie1 , movie2 , '-')

findMovie = True

break'''

# i = i+1

# inputLength = inputLength - 1