Assignment 3 - CT5102

Using lapply to process data

The goal of this assignment is to use the **lapply()** functional to iterate over the list **sw_films** in order to provide two functions to return data. No loops should be used, as **lapply()** can be used to iterate over the lists.

The first step is to include the library **repurrsive**, which should be installed from CRAN.

```
library(repurrsive)
```

Next, write a function that returns the list of movie directors. Here is sample output:

```
dirs <- get_directors()
dirs
```

```
## [1] "George Lucas"     "Richard Marquand" "Irvin Kershner"    "J. J. Abrams"
```

Next, write a function that returns teh folloiwng information for a specific set of movies (or movie) associated with a director.

```
movies <- get_film_info("George Lucas")
str(movies)
```

```
## List of 4
##  $ :List of 5
##   ..$ Director: chr "George Lucas"
##   ..$ Title   : chr "A New Hope"
##   ..$ Episode : int 4
##   ..$ Opening : chr "It is a period of civil war.\r\nRebel spaceships, striking\r\nfr
```

```
##   ..$ Date    : chr "1977-05-25"
##  $ :List of 5
##   ..$ Director: chr "George Lucas"
##   ..$ Title   : chr "Attack of the Clones"
##   ..$ Episode : int 2
##   ..$ Opening : chr "There is unrest in the Galactic\r\nSenate. Several thousand sola
##   ..$ Date    : chr "2002-05-16"
##  $ :List of 5
##   ..$ Director: chr "George Lucas"
##   ..$ Title   : chr "The Phantom Menace"
##   ..$ Episode : int 1
##   ..$ Opening : chr "Turmoil has engulfed the\r\nGalactic Republic. The taxation\r\no
##   ..$ Date    : chr "1999-05-19"
##  $ :List of 5
##   ..$ Director: chr "George Lucas"
##   ..$ Title   : chr "Revenge of the Sith"
##   ..$ Episode : int 3
##   ..$ Opening : chr "War! The Republic is crumbling\r\nunder attacks by the ruthless\
##   ..$ Date    : chr "2005-05-19"
```