

07.10 Assignment Instructions

Instructions: Using a list of movies you own or wish to see, sort them based on title, year created, or movie studio. Use the selection sort algorithm to reorder the collection as requested in ascending or descending order.

1. Create a new project called **07.10 Assignment** in your Module 07 assignments folder.
2. Copy your `Movie.java` and tester file from the previous sorting project as a starting point.
Rename the tester to `v3`. Delete the existing sort methods.
3. Declare an array of at least 10 `Movie` objects. For each, you will need the movie title, year, and studio. Of course, be sure to use school-appropriate movie titles.
For example: Meet the Robinsons, 2007, Disney
4. Design a static method that traverses through the array and prints each element.
5. Create the following static methods in the tester class. Utilize the selection sort algorithm. Each method will take two arguments: the array and an `int` parameter. Sort appropriately depending on the value of the second parameter: 1 sort ascending, or 2 sort descending.
 - a. a method that sorts the array by the `movie` title
 - b. a method that sorts the array by `year` released
 - c. a method that sorts the array by the name of the `studio` that produces it
6. Test your sorting methods by calling each and displaying the results. Start by showing the array without sorting. Then demonstrate sorting by title in both ascending and descending order. Do the same for year and studio. Be sure to clearly label your output so someone looking at it knows which sort was applied each time.

