# JS Advanced – Retake Exam: 10.12.2019

## Problem 2. Christmas movies

Use the provided **ChristmasMovies class** to solve this problem.

### Your Task

Using **Mocha** and **Chai** write **JS Unit Tests** to test the entire functionality of the ChristmasMovies **class**. Make sure instances of it have all the required functionality and validation. You may use the following code as a template:

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| describe(**"*Tests* …"**, **function**() {  describe(**"*TODO* …"**, **function**() {  ***it***(**"*TODO …*"**, **function**() {  *//* ***TODO:*** …  });  });  *//* ***TODO:*** …  }); |

### Functionality

movies.js defines a **class** that contains information about some **Christmas movies**. An **instance** of the class should support the following operations:

* **Instantiation** with **no parameters,** and **properties** called "**movieCollection**"(**empty array**), "**watched**" (**empty object)** and **“actors” (empty array)**.
* Method buyMovie() - receives **two** parameters: a **string** (movieName) and an **array (actors)**. If you don’t have the movie in your collection, you should add it in format **{name: movieName, actors: [actors]}**, where there are only **unique actors** and return a proper message. Otherwise, an error should be **thrown**.
* Method discardMovie() **one** parameter: a **string** (movieName)**.** If you have the movie in your collection you should delete it and if the movie is watched, you should also remove it from the watched list and return a proper message. If you don’t have the movie in the collection, an error is thrown.
* Method watchMovie() - receives one parameter: a **string** (movieName). If you have the movie in your collection and is still not on the watched list, you should put it there as a key and value pair where the movie name is the key and the value is set to 1. However, if it already is watched you should just increase the counter. Otherwise, a new error is thrown.
* Method favouriteMovie() - receives **no** parameters. If there are no movies in your watched list a new error is thrown. Otherwise, a message is returned in a proper format.
* Method mostStarredActors() - receives **no** parameters. If there are no movies in your collection a new error is thrown. Otherwise, a message is returned in a proper format.

### Examples

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| Sample Code Usage |
| let christmas = new ChristmasMovies();  console.log(christmas.buyMovie('Last Christmas', ['Madison Ingoldsby', 'Emma Thompson', 'Boris Isakovic', 'Madison Ingoldsby']));  console.log(christmas.buyMovie('Home Alone', ['Macaulay Culkin', 'Joe Pesci', 'Daniel Stern']));  console.log(christmas.buyMovie('Home Alone 2', ['Macaulay Culkin']));  console.log(christmas.buyMovie('The Grinch', ['Benedict Cumberbatch', 'Rashida Jones']));  christmas.watchMovie('The Grinch');  console.log(christmas.discardMovie('The Grinch'));  christmas.watchMovie('Home Alone');  christmas.watchMovie('Home Alone');  christmas.watchMovie('Home Alone');  christmas.watchMovie('Last Christmas');  christmas.watchMovie('Last Christmas');  console.log(christmas.favouriteMovie());  console.log(christmas.mostStarredActor()); |
| Corresponding Output |
| **You just got Last Christmas to your collection in which Madison Ingoldsby, Emma Thompson, Boris Isakovic are taking part!**  **You just got Home Alone to your collection in which Macaulay Culkin, Joe Pesci, Daniel Stern are taking part!**  **You just got Home Alone 2 to your collection in which Macaulay Culkin are taking part!**  **You just got The Grinch to your collection in which Benedict Cumberbatch, Rashida Jones are taking part!**  **You just threw away The Grinch!**  **Your favourite movie is Home Alone and you have watched it 3 times!**  **The most starred actor is Macaulay Culkin and starred in 2 movies!** |

### Submission

Submit your tests inside a describe() statement, as shown above.