

Advanced JavaScript

Lab 2

Note: Make your own interface for the following tasks.

1. Create your own object that contains a list of numerical sequence, with the following details

- Your constructor takes 3 parameters to define start, end of list and step
- The list should be private and filled with private method
- You can create getter and setter for the list if needed
- Allow the user to apply the following functionality to his created sequence
 - Append or prepend a new value within the same numerical sequence
 - Dequeue or pop a value,
 - you have to ensure that you are pushing value within the same sequence otherwise through exception
 - you have to ensure that there is no duplicated value otherwise through exception
- you can add any property you need.

2. Create your box object that contains books objects, ensure that you can

- a. Create book object and add it to box object content property**
- b. Count # of books inside box**
- c. Delete any of these books in box according to book title.**
Note: You should delete a single copy of the books with the same title.
- d. Create Class Property that counts numbers of created books objects and Class method to retrieve it.**

Note:

- **Using of global variables is not allowed**
- **No Class methods and properties except for those required in part d.**
- **Box object has the following properties:**
height, width, length, material, content.
 - **The content property contains an array books**
- **Book object has the following properties:**
title, numofChapters, author, numofPages, publisher, numofCopies
- **you can define any function needed for both box and book objects**