# JS Advanced - Exam: 26.10.2019

Exam problem for the [“JavaScript Advanced” course @ SoftUni](https://softuni.bg/courses/javascript-advanced).  
Submit your solutions in the SoftUni Judge system at <https://judge.softuni.bg/Contests/Compete/Index/1850#1>.

## Problem 2. Ski Resort

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

### Your Task

Using **Mocha** and **Chai** write **JS Unit Tests** to test the entire functionality of the Ski Resort **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

solution.js defines a **class** that contains information about a **ski resort**. An **instance** of the class should support the following operations:

* **Instantiation** with **one** **parameter** - a **string** representing the **ski resort name,** and an **additional properties** called "**voters**"(**number** with **value 0 by default**) and "**hotels**" ( **empty array by default)**.
* Getter bestHotel - **Returns** the best hotel in a given format or if there is **no** **votes** yet **return** a proper **message**
* Function build() - receives **two** parameters: a **string** (hotelName) and a **number** (beds). If the **name** is **empty** **string** or the **beds** are **less than 1** an **error** should be **thrown** . Otherwise the function should add the hotel to the hotels array and **return the proper message**.
* Function book() receives **two** parameters: a **string** (hotelName) and a **number** (beds)**.** If the name is valid and there are free beds in that hotel you should decrease the number beds of the hotel with the given beds you want to book. If booking is **successful** you should **return** the **proper** **message**, otherwise an **error** should be thrown.
* Function leave() - receives three parameters: a **string** (hotelName) and **two** numbers - beds and points. If the parameters are valid and there is a hotel with that name the proper **message** should be **returned**. Otherwise **throw** an **error**.
* Function averageGrade() - receives **no** parameters - if there **aren’t** **any** **votes** the proper **message** should be **returned**. Otherwise, **return** the average grade of all the hotels in the **proper** **format**.

### Examples

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| Sample Code Usage |
| let res = new SkiResort("Some");  console.log(res.build("Sun", 10));  console.log(res.build('Avenue',5))  console.log(res.book('Sun', 5))  console.log(res.book('Avenue', 5))  console.log(res.leave('Sun', 3, 2));  console.log(res.leave('Avenue', 3, 3));  console.log(res.book('Avenue', 3))  console.log(res.leave('Avenue', 3, 0.5));  console.log(res.averageGrade());  console.log(res.bestHotel); |
| Corresponding Output |
| **Successfully built new hotel - Sun**  **Successfully built new hotel - Avenue**  **Successfully booked**  **Successfully booked**  **3 people left Sun hotel**  **3 people left Avenue hotel**  **Successfully booked**  **3 people left Avenue hotel**  **Average grade: 1.83**  **Best hotel is Avenue with grade 10.5. Available beds: 3** |

### Submission

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