# JS Advanced: TODO 2018

# Problem 3. Vacationer (Simple Class)

*The travel agency decides that they want to keep some information about their clients who get registered on their website. Your task for this additional functionality is to implement a simple class about the average vacationer.*

Write a JavaScript class Vacationer that keeps information about a **vacationer** that is registered on the travel agency’s website. The class must keep the vacationer’s fullName, idNumber, creditCard and wishList. You must name your properties as listed above.

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| class Vacationer {  // TODO: implement this class  } |

#### Class Properties

The class must have the following **properties**:

* fullName – an **object** with the following format:

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| {  firstName: String,  middleName: String,  lastName: String } |

* idNumber – a **String**.
* creditCard – an **object** with the following format:

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| {  cardNumber: Number,  expirationDate: String,  securityNumber: Number } |

* wishList – an **array**, which keeps **Strings** that contain the desired destinations.

#### Class Implementation

The class constructor receives the fullName of the vacationer and an **optional object parameter** that describes the creditCard details. If the creditCard parameter is **missing**, you must use the following **default values**: cardNumber – 1111, expirationDate – “”, securityNumber – 111. You must initialize the wishList property as an empty array. You must call the generateIDNumber() function in the constructor in order to set the value for the idNumber.

Implement the following features:

* Accessor fullName – used to get and set the value for the full name of the vacationer. The **input** for the set accessor comes as an **array of Strings**.  
  A full name is considered **valid** when it consists of **exactly 3 names**. Also each name must start with a **single capital Latin letter**, followed by **lower-case Latin letters only**. This is an example of a valid name – Ivan Ivanov Ivanov. This is an example of an invalid name – Iv@n Ivanov.   
  First of all, in case that the number of given names is wrong, throw an error: "Name must include first name, middle name and last name". Secondly, in case that a name with a wrong format is given, throw the following error: "Invalid full name".
* Function generateIDNumber() – used to set the value for the id of the vacationer.   
  The id number must be generated individually for each vacationer using the following formula:

231 \* firstName’s first letter’s ASCII code + 139 \* middleName length

If the **last name** of the vacationer **ends with a vowel** ("a", "e", "o", "i", "u"), add **8** to the end of the above calculated id number. Otherwise, add **7**.

* Function addCreditCardInfo(input) – updates the details for the vacationer’s credit card. The **input** comes an **array of Strings**.  
  In case that **less arguments** are received, throw an error: "Missing credit card information". However, if you received enough arguments, but the cardNumber and the securityNumber are not **numbers**, throw the error: "Invalid credit card details".
* Function addDestinationToWishList(destination) – adds a destination to the wishList array. The **destination** is always a single **string** – either the name of a city, or the name of a country. Every time a destination is added to the wishList, the wishList must be **sorted** by destinations **names’ length** in **ascending** order (starting from the destination with the shortest name to the one with the longest name).   
  If a destination that already exists in the wish list is to be added, throw the error: "Destination already exists in wishlist".
* Function getVacationerInfo() – returns a String that contains information about the vacationer in the following format. If the wish list is empty, print “empty”. If there are destinations added, print them all joined with “, ”. The format is:

“Name: {firstName} {middleName} {lastName}  
 ID number: {idNumber}  
 Wishlist:   
 empty/destinations, joined with ‘, ’  
 Credit Card:  
 Card Number: {cardNumber}  
 Expiration Date: {expirationDate}  
 Security Number: {securityNumber}”

Scroll down to see **examples**.

### Examples

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| Sample code usage |
| // Initialize vacationers with 2 and 3 parameters  let vacationer1 = new Vacationer(["Vania", "Ivanova", "Zhivkova"]);  let vacationer2 = new Vacationer(["Tania", "Ivanova", "Zhivkova"],  [123456789, "10/01/2018", 777]);  // Should throw an error (Invalid full name)  try {  let vacationer3 = new Vacationer(["Vania", "Ivanova", "ZhiVkova"]);  } catch (err) {  console.log("Error: " + err.message);  }  // Should throw an error (Missing credit card information)  try {  let vacationer3 = new Vacationer(["Zdravko", "Georgiev", "Petrov"]);  vacationer3.addCreditCardInfo([123456789, "20/10/2018"]);  } catch (err) {  console.log("Error: " + err.message);  }  vacationer1.addDestinationToWishList('Spain');  vacationer1.addDestinationToWishList('Germany');  vacationer1.addDestinationToWishList('Bali');  // Return information about the vacationers  console.log(vacationer1.getVacationerInfo());  console.log(vacationer2.getVacationerInfo()); |
| Corresponding output |
| Error: Invalid full name  Error: Missing credit card information  Name: Vania Ivanova Zhivkova  ID Number: 208398  Wishlist:  Bali, Spain, Germany  Credit Card:  Card Number: 1111  Expiration Date:  Security Number: 111  Name: Tania Ivanova Zhivkova  ID Number: 203778  Wishlist:  empty  Credit Card:  Card Number: 123456789  Expiration Date: 10/01/2018  Security Number: 777 |

### Submission

Submit **only** your class Vacationer.