# JS Advanced: Exam 18.11.2018

## Problem 3. Vacation

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| **class** Vacation {  *//* ***TODO: implement this class...*** } |

Write a **JavaScript class** **Vacation** which holds the information about school upcoming vacation. Y**our class should contain the following functionality...**

### Constructor

should have 4 properties:  
- **organizer**(String),  
- **destination**(String),  
- **budget**(Number),  
- **kids**(Object)

And it must take 3 of them (organizer, destination, budget) in the constructor. The kids property by default must be **empty**.

### Method – registerChild()

Accepts 3 properties **(name, grade, budget)**:

Stores **all kids** into the **kid's property** by their **grade**. Every grade correspond to **array** of all **kids** in there by following format: **{name}-{budget}**

This method **checks** if the current kid’s budget is **enough** for the trip. If it is not, it should **return** the following string:   
**'{name}'s money is not enough to go on vacation to {destination}.'**

Otherwise we **add it** if it is not already recorded in and **return the current grade.**

If current kid is already into that **grade** the method should **return** the following **string**:   
**'{name} is already in the list for this {destination} vacation.'**

### Method - removeChild()

Accepts 2 properties **(name, grade):**

**Removes** a kid from the **array** of already enrolled kids for this trip if the current kid **exists** in there of course…

If the **name** of the **current kid** **exists** in the current grade we **remove** him and **return** the **current** **grade.**

If the given kid name do **not exist** in the given grade, we should **return** the following **string**:   
**'We couldn't find {name} in {grade} grade.'**

### Method toString()

**Prints** all kids from the **kid's** property **sorted** in **ascending** order by their **grade** into the following format:

**`{organizer} will take {numberOfChildren} children on trip to {destination}  
`Grade: {currentGrade}`  
{currentKidNumber}. {kid}`  
…  
…  
  
`Grade: {nextGrade}`  
{currentKidNumber}. {kid}`  
…  
…**

**..** And so on for **all grades**

The new line (**\n**) after every kid or **grade is at the end**.

If there **are currently no kids** for the current trip, the kids property is **empty** and you should **return** the following **string**: **`No children are enrolled for the trip and the organization of ${this.organizer} falls out...**` **Check the example below for more clarity**.

### Get numberOfChildren()

**Returns** the current **count** of **all kids** into the **kid's** property.

### Notes

**Names of all functions and getters and setters must be exactly the same as in the description and examples!**

### Submission

Submit only the **Vacation** class as “**JavaScript code**”.

### Examples

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| **Input 1** |
| **let *vacation* = new Vacation('Mr Pesho', 'San diego', 2000);**  ***console***.log(***vacation***.registerChild(**'Gosho'**, 5, 2000));  ***console***.log(***vacation***.registerChild(**'Lilly'**, 6, 2100));  ***console***.log(***vacation***.registerChild(**'Pesho'**, 6, 2400));  ***console***.log(***vacation***.registerChild(**'Gosho'**, 5, 2000));  ***console***.log(***vacation***.registerChild(**'Tanya'**, 5, 6000));  ***console***.log(***vacation***.registerChild(**'Mitko'**, 10, 1590)); |

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| **Output 1** |
| [ 'Gosho-2000' ]  [ 'Lilly-2100' ]  [ 'Lilly-2100', 'Pesho-2400' ]  Gosho is already in the list for this San diego vacation.  [ 'Gosho-2000', 'Tanya-6000' ]  Mitko's money is not enough to go on vacation to San diego. |

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| **Input 2** |
| **let *vacation* = new Vacation('Mr Pesho', 'San diego', 2000);**  ***vacation***.registerChild(**'Gosho'**, 5, 2000);  ***vacation***.registerChild(**'Lilly'**, 6, 2100);  ***console***.log(***vacation***.removeChild(**'Gosho'**, 9));  ***vacation***.registerChild(**'Pesho'**, 6, 2400);  ***vacation***.registerChild(**'Gosho'**, 5, 2000);  ***console***.log(***vacation***.removeChild(**'Lilly'**, 6));  ***console***.log(***vacation***.registerChild(**'Tanya'**, 5, 6000)) |
| **Output 2** |
| We couldn't find Gosho in 9 grade.  [ 'Pesho-2400' ]  [ 'Gosho-2000', 'Tanya-6000' ] |

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| **Input 3** |
| **let *vacation* = new Vacation('Miss Elizabeth', 'Dubai', 2000);**  ***vacation***.registerChild(**'Gosho'**, 5, 3000);  ***vacation***.registerChild(**'Lilly'**, 6, 1500);  ***vacation***.registerChild(**'Pesho'**, 7, 4000);  ***vacation***.registerChild(**'Tanya'**, 5, 5000);  ***vacation***.registerChild(**'Mitko'**, 10, 5500);  ***console***.log(***vacation***.toString()); |
| **Output 3** |
| Miss Elizabeth will take 4 children on trip to Dubai  Grade: 5  1. Gosho-3000  2. Tanya-5000  Grade: 7  1. Pesho-4000  Grade: 10  1. Mitko-5500 |