

# JS Advanced: Exam 18.11.2018

## Problem 3. Vacation

```
class Vacation {  
    // TODO: implement this class...  
}
```

Write a **JavaScript class Vacation** which holds the information about school upcoming vacation. Your 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

Input 1
<pre>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));</pre>

Output 1
<pre>[ '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.</pre>

Input 2
<pre>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);</pre>

```
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' ]

### 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

