Main tasks

1. Є масив з довільними числами. Зробіть так, щоб елемент повторився в масиві таку кількість разів яка відповідає його числу. Приклад: [1, 3, 2, 4] перетворюється в [1, 3, 3, 3, 2, 2, 4, 4, 4, 4].

2. Є масив:   
temperatures = [33, 15, 17, 20, 23, 23, 28, 40, 21, 19, 31, 18, 30, 31, 28, 23, 19, 28, 27, 30, 39, 17, 17, 20, 19, 23, 28, 30, 34, 28]  
Знайти три найменших значення, три найбільших і три середніх.

3. Є масив:

books = [

{

name: 'Learning ruby, mysql and JavaScript',

author: 'Robin Snow',

price: 30,

tags: ['ruby', 'javascript', 'mysql']

},

{

name: 'Ruby for the Web: Visual QuickStart Guide',

author: 'Larry Snow',

price: 25,

tags: ['ruby']

},

{

name: 'Ruby and MySqL for Dynamic Web Sites',

author: 'Larry Snow',

price: 14.39,

tags: ['ruby', 'mysql']

},

{

name: 'Modern Ruby: New Features and Good Practices',

author: 'Josh Snow',

price: 24,

tags: ['ruby']

},

{

name: 'JavaScript and JQuery: Interactive Front-End Web Development',

author: 'Jon Snow',

price: 20,

tags: ['javascript', 'jquery']

},

{

name: 'Miss Peregrine Home for Peculiar Children',

author: 'Ransom Snow',

price: 8.18

}

]

Отримати масив відсортований за ціною книжок

Отримати відфільтрований массив книжок у яких є тег ‘ruby’

Bonus tasks

4. You are going to be given an array of integers. Your job is to take that array and find an index N where the sum of the integers to the left of N is equal to the sum of the integers to the right of N. If there is no index that would make this happen, return -1.

For example:

Let's say you are given the array [1,2,3,4,3,2,1] - Your function will return the index 3, because at the 3rd position of the array, the sum of left side of the index ([1,2,3]) and the sum of the right side of the index ([3,2,1]) both equal 6.

[1,100,50,-51,1,1] - Your function will return the index 1, because at the 1st position of the array, the sum of left side of the index ([1]) and the sum of the right side of the index ([50,-51,1,1]) both equal 1.

You need to test the solution on the next arrays:

[20,10,-80,10,10,15,35]

[10,-80,10,10,15,35]

5. You need to find out a unique value in array, you are given arrays:

- [ 1, 1, 1, 2, 1, 1 ] => 2

- [ 0, 0, 0.55, 0, 0 ] => 0.55

- [3,1,5,3,7,4,1,5,7] => 4