Test for JavaScript Developer

Create a function <code>sortProductsByPrice</code> that takes a list of products and returns an object containing products with the highest and the lowest prices. The test contains 3 subtasks: in every next task you extend your function with new conditions. Submit your function for every task.

Task 1.

Start with the basic code. Create a function sortProductsByPrice that finds 5 products with the highest prices and 5 products with the lowest prices from the product array.

```
const products = [
   {id: 1, price: 10}, {id: 2, price: 11}, {id: 3, price: 1}, {id: 4,
price: 3}, {id: 5, price: 1}, {id: 6, price: 8},
    {id: 7, price: 3}, {id: 8, price: 0}, {id: 9, price: 4}, {id: 10,
price: 5}, {id: 11, price: 9}, {id: 12, price: 13},
];
/**
* @params [Array] products - list of products
* @params [Number] options.size - Optional parameter. By default it
should be 5
**/
function sortProducts(products, options) {
//...
}
const result = sortProducts(products); // {highest: [...], lowest:
[...]}
```

Task 2.

If there are less products than options.size the priority should be given to fill the array with the highest prices. If no elements left null should be returned.

Task 3.

When we call the function with unmodified params it should return <code>null</code> in the data fields

```
const products = [
    {id: 1, price: 10},
    {id: 2, price: 11},
    {id: 3, price: 1},
    {id: 4, price: 2},
    {id: 5, price: 100},
    {id: 6, price: 0.1}
];
const result1 = sortProducts(products); // {highest: [...], lowest:
[...]}
// call without modifications
const result2 = sortProducts(products); // {highest: null, lowest: null}
products[1] = {id: 2, price: 11.5};
// call with modified data
const result2 = sortProducts(products); // {highest: [...], lowest:
[...]}
// call without modifications
const result3 = sortProducts(products); // {highest: null, lowest: null}
products.push({...});
// call with modified data
const result4 = sortProducts(products); // {highest: [...], lowest:
[...]}
```

Requirements

- ES2015+ or Typescript
- Vanilla JS, without any libraries or frameworks
- Unit tests