JS Advanced: Exam 19 December 2016

Problems for exam preparation for the "JavaScript Advanced" course @ SoftUni. Submit your solutions in the SoftUni judge system at https://judge.softuni.bg/Contests/375/.

Problem 4. List Builder (Object Interacting with DOM)

You are given the following HTML code (with CSS styles), intended to draw a list of items:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>List Items: Up / Down</title>
  <style>button { margin: 3px 0 3px 8px }</style>
  <script src="https://code.jquery.com/jquery-3.1.1.min.js"></script>
</head>
<body>
<div id="main"></div>
<script>
  function listBuilder(selector) {
    // TODO: return the list builder
</script>
<script>
  $(function() {
    let builder = listBuilder("#main");
    builder.createNewList();
    builder.addItem("Sofia");
    builder.addItem("Varna");
    builder.addItem("Sofia <new>");
    builder.addItem("Pleven");
  });
</script>
</body>
</html>
```

The function listBuilder(selector) takes as input a DOM selector (string) and returns an object holding the functions createNewList() and addItem(text).

createNewList clears the contents of the selector and appends an empty element to it:

```
▼<div id="main">
  <l
 </div>
```



















addItem appends the specified string item into the previously created as a element, along with two buttons for moving the item:

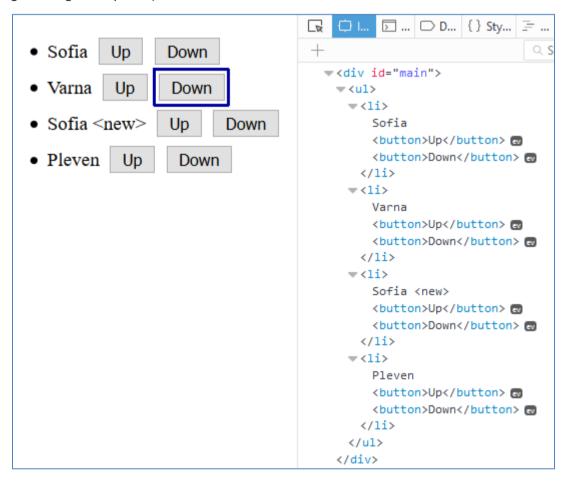
```
√<1i>
   Sofia
   <button>Up</button> 💀
   <button>Down</button> 💀
```

Implement functionality to move each item in the list: when the buttons are clicked, the corresponding item should move up or down, relative to the rest of the items (reordered in the DOM tree).

Your task is to write the body of the listBuilder(selector) function to get the above page working as expected (see the screenshots). Do not modify the HTML code and CSS styles, just write the missing JS function.

Examples

When the missing JS function listBuilder(selector) is implemented correctly, the page should look as follows (after the page loading is completed):

















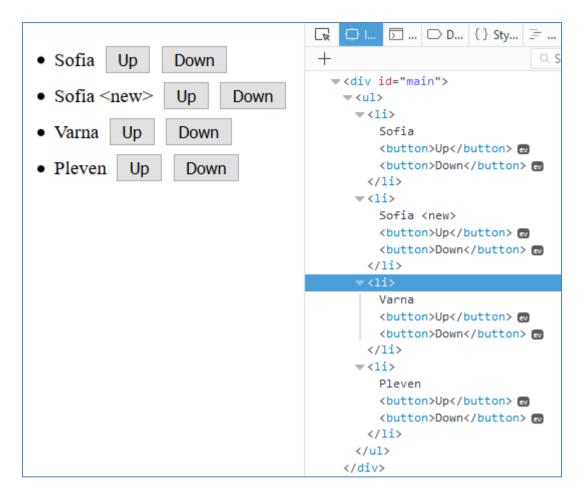












Submission

Submit your listBuilder(selector) function as "JavaScript code (DOM unit tests)".

















