

# QuBit JS Programming Test

## Introduction

The task is to create a JavaScript selection engine i.e. a JavaScript function that will return DOM elements given a CSS selector.

The test contains 3 files

**Test.html** contains the HTML your function will be tested on

**Test.js** contains a function which will provide results for your answer in the developer console

**Answer.js** contains a template function that you should change and submit once you have finished

## Rules

- I. You should only modify and submit **Answer.js**
- II. You may not use any JavaScript libraries
- III. `document.querySelector/document.querySelectorAll` may not be used

## Running the test

Open **Test.html** in a web browser (IE8+, Chrome, Firefox or Safari) and check the developer console for the test results. The template **Answer.js** should show 1 of 7 tests passed (as one of the answers should be an empty array)

The template looks like so -

```
var $ = function (selector) {  
    var elements = [];  
  
    ///////////////////////////////////  
    // Your code here //  
    ///////////////////////////////////  
  
    return elements;  
}
```

**Answer.js** will be tested on the body of **Test.html** -

```
<body>  
  <div></div>  
  <div id="some_id" class="some_class some_other_class"></div>  
  <img id="some_other_id" class="some_class some_other_class"></img>  
  <input type="text">  
</body>
```

The following calls to your function will be made. Your function should return an array of DOM elements that match the CSS selector

`$("div")` - Should return 2 DIVs

`$("img.some_class")` - Should return 1 IMG

`$("#some_id")` - Should return 1 DIV

`$(".some_class")` - Should return 1 DIV and 1 IMG

`$("input#some_id")` - Should return an empty array

`$("div#some_id.some_class")` - Should return 1 DIV

`$("div.some_class#some_id")` - Should return 1 DIV

Try to pass as many tests as possible, the number of tests passed and quality of written code in **Answer.js** will be considered.