

Тестирование в JavaScript

Задача

```
export function MyCustomAbs (x: number) : number {  
    return x < 0 ? -x : x;  
}
```

Обложим тестами

```
describe('MyCustomAbs', () => {  
  for (let x = -3; x < 3; x++) {  
    let expected = Math.abs(x);  
  
    it(`should return ${expected} for ${x}`, () => {  
      expect(MyCustomAbs(x)).toBe(expected);  
    });  
  }  
});
```

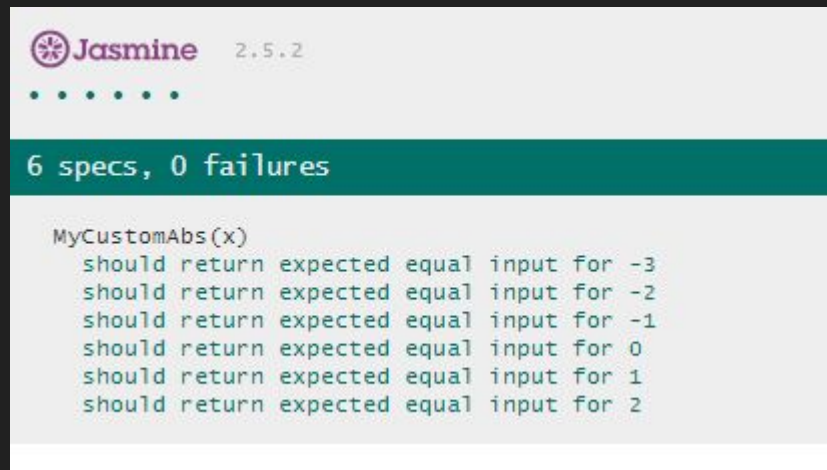
Результат

Started

.....

6 specs, 0 failures

Finished in 0.006 seconds



```
Jasmine 2.5.2
.....

6 specs, 0 failures

MyCustomAbs(x)
  should return expected equal input for -3
  should return expected equal input for -2
  should return expected equal input for -1
  should return expected equal input for 0
  should return expected equal input for 1
  should return expected equal input for 2
```

Вроде все хорошо... или нет?

Started

.....F..

Failures:

1) should return expected equal input for 0

Message:

Expected false to be true.

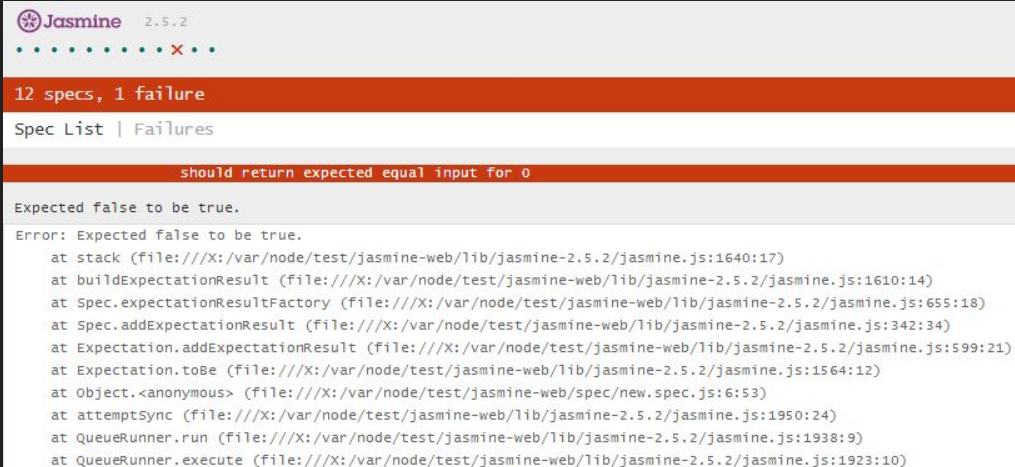
Stack:

Error: Expected false to be true.

at Object.<anonymous> (X:\var\node\test\math-tests\spec\index.spec.js:18:61)

12 specs, 1 failure

Finished in 0.006 seconds



The screenshot shows the Jasmine test runner interface. At the top, it displays the Jasmine logo and version 2.5.2. Below that, a progress bar shows 12 specs and 1 failure. The failure is highlighted in red and labeled "12 specs, 1 failure". The failure message is "Expected false to be true." and the stack trace is visible below it.

Jasmine 2.5.2
.....x.....
12 specs, 1 failure
Spec List | Failures
should return expected equal input for 0
Expected false to be true.
Error: Expected false to be true.
at stack (file:///X:/var/node/test/jasmine-web/lib/jasmine-2.5.2/jasmine.js:1640:17)
at buildExpectationResult (file:///X:/var/node/test/jasmine-web/lib/jasmine-2.5.2/jasmine.js:1610:14)
at Spec.expectationResultFactory (file:///X:/var/node/test/jasmine-web/lib/jasmine-2.5.2/jasmine.js:655:18)
at Spec.addExpectationResult (file:///X:/var/node/test/jasmine-web/lib/jasmine-2.5.2/jasmine.js:342:34)
at Expectation.addExpectationResult (file:///X:/var/node/test/jasmine-web/lib/jasmine-2.5.2/jasmine.js:599:21)
at Expectation.toBe (file:///X:/var/node/test/jasmine-web/lib/jasmine-2.5.2/jasmine.js:1564:12)
at Object.<anonymous> (file:///X:/var/node/test/jasmine-web/spec/new.spec.js:6:53)
at attemptsSync (file:///X:/var/node/test/jasmine-web/lib/jasmine-2.5.2/jasmine.js:1950:24)
at QueueRunner.run (file:///X:/var/node/test/jasmine-web/lib/jasmine-2.5.2/jasmine.js:1938:9)
at QueueRunner.execute (file:///X:/var/node/test/jasmine-web/lib/jasmine-2.5.2/jasmine.js:1923:10)

Почему?

Ищем причины...

А зачем?

Инструменты

test framework

Jasmine, QUnit, ...

test runner

Karma, Wallaby, Chutzpah, ...

web-driver

v8, PhantomJS, Chrome, Firefox, Internet Explorer, ...

