

4kyu

Vigenère Cipher Helper

☆ 786 ● 130 ↻ 90% of 975 ● 3,037 of 7,211 👤 jacobbb ⚠ 7 Issues Reported

Instructions

Output

Past Solutions

Time: 808ms Passed: 4 Failed: 0

Test Results:

Testing with lowercase latin alphabet

- Password of 'password'
- Password of 'pizza'
- Password of 'attackdawn', random tokens

Completed in 1ms

Testing with katakana alphabet

- Password of 'カタカナ'

You have passed all of the tests! :)

JavaScript

Nodev18.x

VIM

EMACS

⌵

Solution

```
1 function VigenèreCipher(key, alphabet) {
2   this.key = key;
3   this.alphabet = alphabet;
4
5   this.encode = function (str) {
6     let res = '';
7
8     for (let i = 0; i < str.length; i++) {
9       let strIndex = this.alphabet.indexOf(str[i]);
10
11       if (strIndex === -1) {
12         res += str[i];
13       } else {
14         let keyIndex = this.alphabet.indexOf(this.key[i % this.key.length]);
15         let index = strIndex + keyIndex;
16         res += this.alphabet[index % this.alphabet.length];
17       }
18     }
19     return res;
20   };
21 }
22
23 module.exports = VigenèreCipher;
```

Good Job! You may take your time to refactor/comment your solution. Submit when ready.

Sample Tests

```
1 const Test = require('@codewars/test-compat');
2
3 describe("Tests", () => {
4   it("test", () => {
5     var abc, key;
6     abc = "abcdefghijklmnopqrstuvwxyz";
7     key = "password";
8     c = new VigenèreCipher(key, abc);
9
10    // ...
11  });
12});
```

TEST SUBMIT

5kyu

Vector class

☆ 562 ● 122 ↻ 88% of 819 ● 2,961 of 7,228 👤 eugene-bulkin ⚠ 8 Issues Reported

Instructions

Output

Time: 814ms Passed: 6 Failed: 0

Test Results:

Testing arithmetic

- Addition
- Subtraction
- Dot Product
- Norms

Completed in 3ms

Auxiliary function

- Equality
- Strings

You have passed all of the tests! :)

JavaScript

Nodev18.x

VIM

EMACS

⌵

Solution

```
1 function Vector (vector) {
2   this.vector = vector;
3
4   this.lengthCheck = function (vector1, vector2) {
5     if (vector1.length !== vector2.length) {
6       throw new Error("Vectors with different lengths");
7     }
8   }
9
10  this.add = function (secondVector) {
11    this.lengthCheck(this.vector, secondVector.vector);
12    let resArr = this.vector.map((elem, index) => elem + secondVector.vector[index])
13    return new Vector(resArr);
14  }
15}
```

Great! You may take your time to refactor/comment your solution. Submit when ready.

Sample Tests

```
1 describe("Tests", () => {
2   it("test", () => {
3     var a = new Vector([1,2]);
4     var b = new Vector([3,4]);
5
6     Test.expect(a.add(b).equals(new Vector([4,6])));
7   });
8 });
```

TEST SUBMIT

4kyu

The Greatest Warrior

☆ 647 ● 133 ↻ 93% of 565 ● 820 of 3,002 👤 BurstNova ⚠ 6 Issues Reported

Instructions

Output

Time: 858ms Passed: 2 Failed: 0

Test Results:

Kata Tests

- Standard Tests
- Random Tests

Completed in 5ms

You have passed all of the tests! :)

JavaScript

Nodev18.x

VIM

EMACS

⌵

Solution

```
1 class Warrior {
2   constructor() {
3     this.ranks = ["Pushover", "Novice", "Fighter", "Warrior", "Veteran", "Sage", "Elite", "Conqueror"];
4     this.warriorExperience = 100;
5     this.warriorLevel = Math.floor(this.warriorExperience / 100);
6     this.warriorRank = this.ranks[Math.floor(this.warriorLevel / 10)];
7     this.warriorAchievements = [];
8   }
9
10  level() {
11    return this.warriorLevel;
12  }
13
14  rank() {
15    return this.warriorRank;
16  }
17
18  achievements() {
19    return this.warriorAchievements;
20  }
21}
```

Excellent! You may take your time to refactor/comment your solution. Submit when ready.

Sample Tests

```
1 const Test = require('@codewars/test-compat');
2
3 describe("Kata Tests",function(){
4   it("Standard Tests",function(){
5     var Goku = new Warrior();
6
7     Test.assertDeepEquals(Goku.level(), 1, "All warriors must start as LV 1")
8     Test.assertDeepEquals(Goku.rank(), "Pushover", "All warriors must start as a Pushover")
9     Test.assertDeepEquals(Goku.achievements(), [], "All warriors must start off with no achievements +
```

TEST SUBMIT

skyy

PaginationHelper

☆ 1653

● 314

🔄 81% of 3,150

👤 12,403 of 34,247

👤 jhoffner

🚩 8 Issues Reported

Instructions

Output

Time: 1052ms Passed: 102 Failed: 0

Test Results:

Tests suite

sample test : 24 items with 10 per page

empty collection

random tests

Completed in 26ms

You have passed all of the tests! :)

JavaScript

Node v18.x

VIM

EMACS

Solution

```
1 class PaginationHelper {
2   constructor(collection, itemsPerPage) {
3     this.collection = collection;
4     this.itemPerPage = itemsPerPage;
5     this.countItem = this.collection.length;
6     this.countPage = Math.ceil(this.countItem / this.itemPerPage);
7   }
8   itemCount() {
9     return this.countItem;
10  }
11  pageCount() {
12    return this.countPage;
13  }
14  pageItemCount(pageIndex) {
15    if (pageIndex > this.countPage <= 0 || pageIndex < 0) {

```

Correctamundo! You may take your time to refactor/comment your solution. Submit when ready.

Sample Tests

```
1 describe("Tests suite", () => {
2   const { strictEqual } = require('chai').assert;
3
4   function doTest(instance, methodName, expected, ...args) {
5     const actual = instance[methodName](...args);
6     strictEqual(actual, expected, `for ${methodName}(${args.join(', ')}`);
7   }
8
9   it("sample test : 24 items with 10 per page" () => {

```

SKIP

UNLOCK SOLUTIONS

DISCUSS (265)

RESET

TEST

SUBMIT