

Task 1

Kata Training

4kyu Vigenère Cipher Helper

★ 787 130 90% of 978 3,089 of 7,285 jacob 7 Issues Reported

Instructions Output Past Solutions

Time: 926ms Passed: 4 Failed: 0

Test Results:

- Testing with lowercase latin alphabet
 - Password of 'password'
 - Password of 'pizza'
 - Password of 'attackatdawn', random tokens
- Testing with katakana alphabet
 - Password of 'カタカナ'

You have passed all of the tests! :)

JavaScript Node v18.x

VIM EMACS

Solution

```
1 function VigenèreCipher(key, abc) {
2   this.encode = function (str) {
3     let result = '';
4     let keyIndex = 0;
5
6     for (let i = 0; i < str.length; i++) {
7       if (keyIndex === key.length) {
8         keyIndex = 0;
9       }
10
11       if (!abc.includes(str.at(i))) {
12         result += str.at(i);
13       }
14     }
15   };
16 }
```

Outstanding! 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 });
```

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Task 2

Kata Training

5kyu Vector class

★ 563 122 88% of 822 3,017 of 7,303 eugene-bulkin 8 Issues Reported

Instructions Output Past Solutions

Time: 2953ms Passed: 10 Failed: 0

Test Results:

- Testing arithmetic
 - Addition
 - Subtraction
 - Dot Product
 - Norms
- Auxiliary function
 - Equality
 - Strings
- Random Tests
 - Random add() tests
 - Random subtract() tests

Completed in 2ms

TypeScript 4.9

VIM EMACS

Solution

```
35 toString(): string {
36   return `${this.components}`;
37 }
38
39 equals(vector: Vector): boolean {
40   for (let i = 0; i < this.components.length; i++) {
41     if (this.components[i] !== vector.components[i]) {
42       return false;
43     }
44   }
45   return true;
46 }
47 }
```

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

Sample Tests

```
1 import { assert } from "chai";
2 import { Vector } from "../solution";
3
4 describe("Tests", () => {
5   it("Simple Equality Test", () => {
6     let a = new Vector([1,2]);
7     let b = new Vector([3,4]);
8     assert.isFalse(a.equals(b));
9   });
10 });
```

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Task 3

Kata Training

4 kyu

The Greatest Warrior

★ 651

👤 133

📈 93% of 570

👥 848 of 3,037

👤 BurstNova

📢 6 Issues Reported

Instructions

Output

Past Solutions

Time: 791ms

Passed: 2

Failed: 0

Test Results:

Kata Tests

Standard Tests

Random Tests

Completed in 7ms

You have passed all of the tests! :)

JavaScript

Node v18.x

VIM

EMACS

⛶

Solution

```

81  }
82
83  if (this.levelVal - enemy_level === 1) {
84    this.updateExperience(5);
85  }
86
87  if (enemy_level - this.levelVal >= 1) {
88    const diff = enemy_level - this.levelVal;
89    this.updateExperience(20 * diff * diff);
90  }
91
92  if (this.levelVal - enemy_level >= 2) {
93    message = "Easy fight";
94  }
95  if (this.levelVal - enemy_level >= 3) {
96    message = "A good fight";
97  }

```

Impressive! 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");

```

⏮ SKIP

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💬 DISCUSS (74)

🔄 RESET

TEST

SUBMIT

Task 4

Kata Training

5 kyu

PaginationHelper

1657 314 81% of 3,153 12,450 of 34,316 jhoffer 8 Issues Reported

Instructions Output Past Solutions

Time: 3009ms Passed: 102 Failed: 0

Test Results:

- Tests suite
 - sample test : 24 items with 10 per page
 - empty collection
 - random tests

Completed in 19ms

You have passed all of the tests! :)

TypeScript 4.9

VIM EMACS

Solution

```
23 let count = 0;
24 let pageNum = 0;
25 for (let i = 0; i < this.collection.length; i++) {
26   if (i === itemIndex) {
27     return pageNum;
28   }
29   count++;
30   if (count === this.itemsPerPage) {
31     count = 0;
32     pageNum++;
33   }
34 }
35 return -1;
```

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

Sample Tests

```
1 import { PaginationHelper } from "../solution"
2 import { assert } from "chai"
3
4 describe("Tests suite", () => {
5   it("sample test : 24 items with 10 per page", () => {
6     const collection = [
7       1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21,
8       22, 23, 24,
9     ]
```

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