

Task 1

Kata Training

Heads Up! Unlock the full potential of your account - confirm your email to enable the full dojo experience!

4 kyuVigenère Cipher Helper ✓
☆ 786 🌟 130 ↗ 90% of 976 🌟 3,051 of 7,232 👤 jacobb 🚩 7 Issues Reported

InstructionsOutputPast Solutions

Time: 908ms Passed: 4 Failed: 0

Test Results:
Log
rowsoiv
waffles
CODEWARS
Testing with lowercase latin alphabet
Password of 'password'
Password of 'pizza'
Password of 'attackatdawn', random tokens
Completed in 2ms
Testing with katakana alphabet
Password of 'カタカナ'
Completed in 1ms

```
1 function VigenèreCipher(key, abc) {
2   this.encode = function (str) {
3     let result = '';
4     for (let i = 0; i < str.length; i++) {
5       let char = str[i];
6       if (abc.includes(char)) {
7         let keyChar = key[i % key.length];
8         let shift = abc.indexOf(keyChar);
9         let index = (abc.indexOf(char) + shift) % abc.length;
10        let encryptedChar = abc[index];
11        result += encryptedChar;
12      } else {
13        result += char;
14      }
15    }
16  }
17 }
18
19 Test.assertEquals(c.encode('waffles'), 'laxxhsj');
20 Test.assertEquals(c.decode('laxxhsj'), 'waffles');
21
22 Test.assertEquals(c.encode('CODEWARS'), 'CODEWARS');
23 Test.assertEquals(c.decode('CODEWARS'), 'CODEWARS');
24
25 });
26
27 );
```

Sample Tests

USD/PKR +0.44% 21:56 03.11.2023

Task2

Kata Training

Heads Up! Unlock the full potential of your account - confirm your email to enable the full dojo experience!

3 kyuVector class ✓
☆ 563 🌟 122 ↗ 88% of 822 🌟 2,981 of 7,257 👤 eugene-bulkin 🚩 8 Issues Reported

InstructionsOutputPast Solutions

Time: 777ms Passed: 6 Failed: 0 Show All

Test Results:
Log
(4,6,8)
(-2,-2,-2)
26
3.7416573867739413
You have passed all of the tests! :)

```
1 class Vector{
2   constructor(arr) {
3     this.Array = arr;
4   }
5
6   add(obj) {
7     let newArray = [];
8     let isEqual;
9     for (const key in obj)
10      {
11        isEqual = Array.isArray(obj[key]) && this.Array.length === obj[key].length
12      }
13     if(isEqual)
14       for (let i = 0; i < this.Array.length; i++)
```

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

Sample Tests

3 describe("Tests", () => {
4 it("test", () => {
5 var a = new Vector([1,2]);
6 var b = new Vector([3,4]);
7
8 Test.expect(a.add(b).equals(new Vector([4,6])));
9 });
10 });
11

SKIP VIEW SOLUTIONS DISCUSS (98) RESET TEST SUBMIT

Task 3

4kyu

The Greatest Warrior

651 133 93% of 569 836 of 3,021 BurstNova 6 Issues Reported

Instructions

Output

Past Solutions

Time: 1023ms Passed: 2 Failed: 0

Test Results:

Log

1
100
Pushover
[
Defeated Chuck Norris
9108
91
Master
A good fight
9105
['Defeated Chuck Norris']

Kata Tests

Standard Tests
Random Tests
Completed in 4ms

You have passed all of the tests! :)

Solution

```
1 class Warrior {
2   constructor() {
3     this.levelValue = 1;
4     this.rankValue = "Pushover";
5     this.achievementsValue = [];
6     this.experienceValue = 100;
7   }
8
9   battle(enemyLevel) {
10    if(!enemyLevel || enemyLevel <= 1 || enemyLevel >= 100) {
11      return "Invalid level";
12    }
13
14    const enemyRank = ranks[Math.floor(enemyLevel / 10)];
15
16    if(enemyRank !== this.rankValue || this.levelValue + 5 <= enemyLevel) {
17      return "You've been defeated";
18    }
19
20    if(this.levelValue === enemyLevel) {
21      this.getNewRank(enemyLevel);
22    }
23  }
24
25  getNewRank(enemyLevel) {
26    const newRank = ranks[Math.floor(enemyLevel / 10)];
27    if(newRank !== this.rankValue) {
28      this.rankValue = newRank;
29      this.achievementsValue.push(newRank);
30    }
31  }
32
33  getExperience() {
34    return this.experienceValue;
35  }
36
37  getRank() {
38    return this.rankValue;
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