

lab5开发文档

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解决方案

第一题解决方案

就正常操作

```
function testTime() {
  let count = 0;
  let start_min = new Date().getMinutes();
  let interval = setInterval(function() {
    if (count > 10) {
      console.log("达到10次");
      clearInterval(interval);
    } else if (new Date().getMinutes() !== start_min) {
      console.log("达到整分钟");
      clearInterval(interval);
    } else
      console.log(++count);
  }, 5000)
}
//通过正则表达式寻找答案
```

第二题解决方案

简单正则表达式

```
function testMail(telephone, mail) {
  let telephone_regexp = new RegExp("^(13[4-9])|(15([0-2]|[7-9]))|(18[237]))[0-9]{8}$"); // 开头134-139或150 151 152 157-159 182 183 187+任意八位数字
  let mail_regexp = /^[a-zA-Z0-9_-]+@([a-zA-Z0-9_-]+)((\.[a-zA-Z0-9_-]{2,3}){1,2})$/; // 任意位大小写字母或数字_加上@加上任意位大小写字母或数字_加上1或两组(.后跟2-3位数字字母
  console.log()
  console.log("The telephone is " + ((telephone_regexp.test(telephone)) ? "right" : "wrong") + " and the mail is " + ((mail_regexp.test(mail)) ? "right!" : "wrong!"));
}
```

第三题解决方案

简单正则多次匹配加修改匹配起始点加set使用

```
function testRedundancy(str) {
    let set = new Set();
    let pattern = /\b([a-z]+\s\1\b)/ig; // 不急大小写的字母
    let temp;
    while ((temp = pattern.exec(str)) !== null) {
        set.add(temp[0]);
        pattern.lastIndex -= (temp[0].length - 1) / 2;
    }
    console.log(new Set(Array.from(set).sort().slice(0, 10))); // set转array排序后截取前十后转set
}
```

第四题解决方案

快慢指针（考虑用set否则应该includes更方便）

```
function testKeyBoard(wantInput, actualInput) {
    wantInput = wantInput.toUpperCase();
    actualInput = actualInput.toUpperCase();
    let point_want = 0;
    let point_actual = 0;
    let ans = new Set();
    while (point_want !== wantInput.length) {
        if (wantInput.charAt(point_want) === actualInput.charAt(point_actual))
            point_actual++;
        else ans.add(wantInput.charAt(point_want));
        point_want++;
    }
    console.log(ans);
}
```

第五题解决方案

正则匹配多空格 转为数组翻转

```
function testSpecialReverse(str) {
    str = str.replace(/\s+/g, " ");
    let strs = Array.from(str.split(" "));
    strs = strs.reverse();
    let ans = "";
    for (let i = 0; i < strs.length; i++) {
        ans += strs[i] + " ";
    }
    ans = ans.trim();
    console.log(ans);
}
```

第六题解决方案

按照本位数字寻找对应数字是否出现

```
function twoSum(nums, target) {  
    let ans = new Set();  
    let map = new Map();  
    for (let i = 0; i < nums.length; i++) {  
        map.set(nums[i], i);  
        if (map.has(target - nums[i])) {  
            ans.add([map.get(target - nums[i]), i])  
        }  
    }  
    console.log(ans);  
}
```

第七题解决方案

j记录新起点

```
function lengthOfLongestSubstring(str) {  
    let map = new Map();  
    let ans = 0;  
    let j = 0;  
    for (let i = 0; i < str.length; i++) {  
        if (map.has(str[i])) {  
            j = map.get(str[i]) + 1;  
        }  
        map.set(str[i], i);  
        ans = (ans > i - j + 1) ? ans : i - j + 1;  
    }  
    console.log(ans);  
}
```

第八题解决方案

三种继承方法

```
function Country() {  
    this.name = "国家";  
}  
  
function DevelopingCountry() {  
    Country.call(this);  
}
```

```
}  
DevelopingCountry.prototype.sayHi = function() {  
    console.log("Hi,i am a developing country.");  
}  
  
function PoorCountry() {}  
  
PoorCountry.prototype = new Country();  
PoorCountry.prototype.saySad = function() {  
    console.log("I am a sad poor country.");  
}  
  
function DevelopedCountry() {  
    Country.call(this);  
}  
  
DevelopedCountry.prototype = Object.create(Country.prototype);  
DevelopedCountry.prototype.constructor = DevelopedCountry;  
DevelopedCountry.prototype.sayHappy = function() {  
    console.log("I am a Happy developed country.");  
}
```

截图

github截图

Learn Git and GitHub without any code!

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网页效果截图

```
test.html > html > script
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 <script src="lab6.js"></script>
10 <script>
11   testTime();
12   testMail("1381272424", "dhafhsudaifudan.edu.cn");
13   testMail("13813272424", "dhafhsudai@fudan.edu.cn");
14   testRedundancy("Is is is")
15   testRedundancy("Is is the is is cost of of gasoline going up up")
16   testKeyBoard("7.This is a test", "hs_s_a_es")
17   testSpecialReverse("the sky is blue")
18   testSpecialReverse(" hello world! e")
19   twoSum([2, 7, 11, 15], 9);
20   twoSum([1, 2, 3, 4], 5);
21   lengthOfLongestSubstring("aaaaa");
22   lengthOfLongestSubstring("aadsf");
23   lengthOfLongestSubstring("abdc12c3456");
24   let developing = new DevelopingCountry();
25   developing.sayHi();
26   let poor = new PoorCountry();
27   poor.saySad();
28   let developed = new DevelopedCountry();
29   developed.sayHappy();
30 </script>
31
32 <body>
33
34 </body>
```

<input type="checkbox"/> Preserve log	<input checked="" type="checkbox"/> Eager evaluation
<input type="checkbox"/> Selected context only	<input checked="" type="checkbox"/> Autocomplete from history
<input checked="" type="checkbox"/> Group similar	
X Expression	
not available	
The telephone is wrong and the mail is wrong!	lab6.js:42
The telephone is right and the mail is right!	lab6.js:42
Set(2)	lab6.js:63
Set(4)	lab6.js:63
Set(3)	lab6.js:92
blue is sky the	lab6.js:117
e world! hello	lab6.js:117
Set(1)	lab6.js:144
Set(2)	lab6.js:144
1	lab6.js:170
4	lab6.js:170
7	lab6.js:170
Hi,i am a developing country.	lab6.js:190
I am a sad poor country.	lab6.js:197
I am a Happy developed country.	lab6.js:207
1	lab6.js:24
2	lab6.js:24
3	lab6.js:24
4	lab6.js:24
5	lab6.js:24
6	lab6.js:24
7	lab6.js:24
8	lab6.js:24
达到整分钟	lab6.js:21