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任务



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回复: 26

[面试经验] Stripe 店面疑似新题

海外面经

stripe

匿名用户-LSKUP 2022-2-23 13:29:56 | 倒序浏览

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1

2

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1 / 3 页

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2022(1-3月) 码农类General 骑士全盟@stripe - 内推 - 技术电面 | Positive AverageOther | 在职跳槽

新鲜面经，不多说，直接上题。攒人品，求过！

我回答了前两part 第三part没时间写了但是说了思路。

他家要求写test 很重要！

```
01. /*
02. Your previous Plain Text content is preserved below:
03.
04. Stripe's customers trust us with their data and our developers
    are
05. careful about not logging any sensitive information.
06.
07. However, odd things can happen! Credit card numbers can appear in
    unexpected places
08. (like if someone puts it in the wrong field on a form).
09.
10. In this exercise, we will be writing a filter to ensure that any
    credit
11. card numbers that may have accidentally been put into a string
    get redacted
12. out before logging
13.
14. In this part, we will write a function named redact_card_numbers
    that takes
15. a string as input and returns a string with potential credit card
    numbers
16. redacted.
17.
18. * We can assume that the input string contains tokens separated
    by a single whitespace.
19. * Credit card numbers are represented by strings that contain
    anywhere from 13-16 digits (inclusive).
20. * The function will analyze the input string and look for any
    token that looks
21. like a credit card (i.e. it contains between 13-16 digits).
22. The function will then replace all of the digits with an "x"
    character
23. EXCEPT for the last 4 digits for that token.
24. It will then return the full string with the data redacted.
```

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```
25.
26. Examples
27.
28. // 16 digit number gets redacted, other tokens will not be
    touched
29. redact_card_numbers("1234567890123456 is a number")
30.     returns "xxxxxxxxxxx3456 is a number"
31.
32. // No credit card found, no transformation needed
33. redact_card_numbers("basic_string 12345 no redaction")
34.     returns "basic_string 12345 no redaction"
35.
36. // 16 digit number in the middle of the string is redacted, other
    tokens are left alone.
37. redact_card_numbers("an embedded number 1234567890123456 in the
    string")
38.     returns "an embedded number xxxxxxxxxxxx3456 in the string"
39.
40.
41. PART 2
42.
43. Fortunately, credit card numbers have some additional structure
    to them.
44.
45. For example:
46.
47. * Cards issued by Visa will start with a 4 and will only have 13
    OR 16 digits in them.
48. * Cards issued by American Express will ALWAYS have the first two
    digits of 34 or 37
49.     and will always contain 15 digits.
50. * Cards issued by Mastercard will ALWAYS be 16 digits and will
    ALWAYS have the
51.     first two digits between 51-55 (inclusive) OR will have the
    first four digits
52.     between 2221-2720 (inclusive)
53.
54. Modify your redact_card_numbers function to only redact valid
    Mastercard, Visa, or
55. American Express credit card numbers. Like the previous part, the
    redaction will replace
56. all of the digits with an "x" character EXCEPT for the last 4
    digits.
57.
58. Examples
59.
60. // No credit card found, no transformation needed
61. redact_card_numbers("basic_string 12345 no redaction")
62.     returns "basic_string 12345 no redaction"
63.
64. // 16 digit number does not get redacted as it does not match
```

```
brand criteria

65.  redact_card_numbers("1234567890123456 is not a card")
66.      returns "1234567890123456 is not a card"
67.
68.  // 16 digit number Visa does get redacted as it matches brand
    criteria
69.  redact_card_numbers("4234567890123456 is a valid visa")
70.      returns "xxxxxxxxxx3456 is a valid visa"
71.
72.
73.  PART THREE
74.
75.  This second function works well but it is still too greedy!
    However, besides these brand
76.  specific rules, credit card numbers have another attribute we can
    leverage to improve our
77.  ability to identify them.
78.
79.  All valid Visa, Mastercard, and American Express card numbers use
    a checksum algorithm to
80.  minimize the chance of incorrect data entry.
81.
82.  The algorithm works as follows:
83.
84.  * Start at the rightmost digit of the string and double the value
    of every second digit
85.      in the string (starting with the second rightmost digit)
86.  * If any value is greater than or equal to 10, we subtract 9
    (e.g. if the original value
87.      was 7 and it got doubled to 14, we would replace it with a 5
    since 14 - 9 = 5)
88.  * Sum up the values. If the sum modulo 10 is 0 (e.g. the number
    is evenly divisible by 10),
89.      then it is a valid card number
90.
91.  As an example, consider the four digit number 7773
92.
93.  The checksum algorithm, would operate in the following manner:
94.
95.  Original Number:      7  7  7  3
96.  Double 2nd digits:    14  7  14  3
97.  Minus 9 of values >= 10:  5  7  5  3
98.  Take the sum:          20
99.  Modulus the sum:      20 % 10 == 0
100.
101.  Thus the number 7773 DOES pass the checksum!
102.
103.  Modify your redact_card_numbers function to only redact card
    numbers that meet both the brand
104.  rules you coded in the previous part AND the pass the checksum
```

```
algorithm.

105.

106. Like the previous parts, the redaction will replace all of the
    digits with an "x" character

107. EXCEPT for the last 4 digits.

108.

109. Examples

110.

111. // No credit card found, no transformation needed
112. redact_card_numbers("basic_string 12345 no redaction")
113.     returns "basic_string 12345 no redaction"
114.
115. // 16 digit number does not get redacted as it does not match
    brand criteria
116. redact_card_numbers("1234567890123456 is not valid")
117.     returns "1234567890123456 is not valid"
118.
119. // 16 digit number Visa with bad checksum does not get redacted
120. redact_card_numbers("4211111111111111 is not valid")
121.     returns "4211111111111111 is not valid"
122.
123. // 16 digit number Visa with good checksum does get redacted
124. redact_card_numbers("4234567890123456 is valid")
125.     returns "xxxxxxxxxxx3456 is valid"
126.
127. */
复制代码
```

补充内容 (2022-02-25 22:30 +8:00):

后续就是，挂了。他家硬性条件写完并且test完part 3.自己碰到了个新题运气不好没办法，读题都要时间。希望贡献了这道题能帮助以后面试的兄弟姐妹们。



Stripe

☆☆☆☆☆ (1)

面经
816

工资
101

内推
7

评价
1

讨论
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	+ 1	很有用的信息！	
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	+ 1	给你点个赞！	
	+ 1	太有用了，谢谢楼主！！	
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bitfans 2022-5-18 08:02:07 | 只看该作者

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第一问：

```
01. public String redactCardNumbers1(String in) {
02.     return Pattern.compile("(^|\\s+)
    (\\d{16})\\s+").matcher(in).replaceAll((matchResult -> {
03.         int length = matchResult.group(2).length();
04.         String replace = "x".repeat(length - 4) +
            matchResult.group(2).substring(length - 4);
05.         return
            matchResult.group().replace(matchResult.group(2), replace);
06.     }));
07. }
```

复制代码

第二问：

```
01. public String redactCardNumbers2(String in) {
02.     Pattern[] patterns = new Pattern[4];
03.     // visa
04.     patterns[0] = Pattern.compile("(^|\\s+)
    (4\\d{15}|4\\d{12})\\s+");
05.     // amex
06.     patterns[1] = Pattern.compile("(^|\\s+)
    (34\\d{13}|37\\d{13})\\s+");
07.     // master 1
08.     patterns[2] = Pattern.compile("(^|\\s+)(5[1-
    5]\\d{14})\\s+");
09.     // generated by https://3wldgets.com
10.     // master 2
11.     patterns[3] = Pattern.compile("(^|\\s+)((22[1-9]|22[3-
    9]\\d|2[3-6]\\d{2}|27[01]\\d|2720)\\d{12})\\s+");
12.
13.     for (Pattern p : patterns) {
14.         Matcher matcher = p.matcher(in);
15.         if (matcher.groupCount() > 1) {
16.             return matcher.replaceAll(matchResult -> {
17.                 int length = matchResult.group(2).length();
```

13	258	243
主题	帖子	积分

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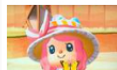


13 主题 | 258 帖子 | 243 积分

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```
18.         String replace = "x".repeat(length - 4) +
           matchResult.group(2).substring(length - 4);

19.         return
           matchResult.group().replace(matchResult.group(2), replace);

20.     });

21.     }

22. }

23.     return in;

24. }
```

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回复

评分 拉黑 举报

bitfans 2022-5-9 18:30:33 | 只看该作者

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本帖最后由 bitfans 于 2022-5-9 20:35 编辑

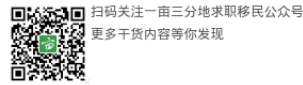
这玩意儿（第一第二问）绝对用应该正则表达式匹配，写很短又不会错，给我加
点米，我写一个发上来，说到做到

评分

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- passtalker +1 给你点个赞！
- 水浅王八多 +1 给你点个赞！

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匿名用户-PNMRJ 2022-3-2 14:00:12

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再爆一个DP，他家真是这样的，没写完就不会给过。我原本看过这道原题而且自
己写过的，但是由于过于入戏写慢了，结果只做了两问，第三问直接不给时间做
了，然后自然就挂了。后面的同志加油，他家这题库都漏完了，面试的时候只管
挽起袖子写就行，不用演了。

评分

参与人数 4 大米 +4 理由 收起

- lovfawth +1 很有用的信息！
- qwer09876 +1 给你点个赞！
- xiaozhang79 +1 很有用的信息！
- cwyabsolute +1 给你点个赞！

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ShiDong 2022-2-25 19:15:56 | 只看该作者

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48

105

主题 | 帖子 | 积分

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好人一生平安

回复评分拉黑举报

匿名用户-SSBMU 2022-2-26 02:28:46 来自APP

本楼：00

谢谢lz。lz自己要的update吗？我跟lz差不多时间，hr消失了。

回复评分举报

匿名用户-0ZGEZ 2022-2-27 14:04:45

本楼：00

谢谢楼主分享！

回复评分举报

匿名用户-MWURN 2022-2-27 20:58:25

本楼：00

谢谢楼主分享 祝楼主找工作好运

回复评分举报

匿名用户-HWN42 2022-2-27 23:43:11 来自APP

本楼：00

已给楼主加米 好人一生平安。然后能问lz一个问题吗？他们家面试可以选typescript作为语言吗还是只能用Python/java

回复评分举报

匿名用户-AHL9A 2022-2-28 14:24:27

本楼：00

谢谢！请问第一题，token 是否可能有 "aaa1234567890123456aaa"，这种情况需要redact 吗。“12aa34567890123"这种呢？

回复评分举报

zhuziyan1226 2022-3-1 13:35:48 | 只看该作者

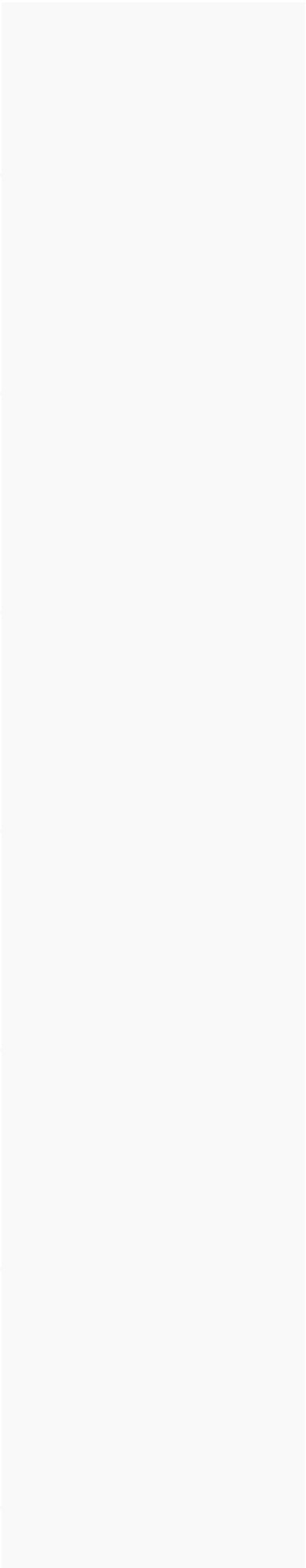
本楼：00全局：51100%0

太有用了，谢谢楼主！！

回复评分拉黑举报

匿名用户-LSKUP 2022-3-2 10:48:16

本楼：00



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匿名者 发表于 2022-2-26 03:28

谢谢lz。lz自己要的update吗？我跟lz差不多时间，hr消失了。

我recruiter非常积极，面试完半个小时就问我体验如何，两天后给了结果

回复

评分 举报

匿名用户-LSKUP 2022-3-2 10:49:20



本楼：



0



0



匿名者 发表于 2022-2-28 15:24

谢谢！请问第一题，token 是否可能有
"aaa1234567890123456aaa", 这种情况需要 redact
吗。"12aa34567890 ...

好问题 我的理解是 只要有连续的数字并且符合条件就redact数字的部分

回复

评分 举报

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1

2

3

1 / 3 页

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