## \*/ 551 Student Attendance Record I

```
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```

You are given a string representing an attendance record for a student. The record only contains the following three characters:

```
    'A' : Absent.
    'L' : Late.
```

3. 'P' : Present.

A student could be rewarded if his attendance record doesn't contain more than one 'A'

(absent) or more than two continuous 'L' (late).

You need to return whether the student could be rewarded according to his attendance

Example 1:
Input: "PPALLP"
Output: True
Example 2:
Input: "PPALLL"
Output: False

来自 <https://leetcode.com/problems/student-attendance-record-i/description/>

给定一个字符串来代表一个学生的出勤纪录,这个纪录仅包含以下三个字符:

'A': Absent,缺勤
 'L': Late,迟到
 'P': Present,到场

如果一个学生的出勤纪录中不**超过一个'A'(缺勤)**并且**不超过两个连续的'L'(迟到)**,那么这个学生会被奖

你需要根据这个学生的出勤纪录判断他是否会被奖赏。

## **Solution for Python3:**

```
1 class Solution1:
 2
       def checkRecord(self, s):
 3
 4
           :type s: str
 5
           :rtype: bool
6
 7
           Acnt, Lcnt = 0, 0
8
           for i in range(len(s)):
9
              if s[i] == 'L':
10
                  Lcnt += 1
              else:
11
12
                  if s[i] == 'A':
                      Acnt += 1
13
                  Lcnt = 0
14
15
              if Acnt > 1 or Lcnt >2:
16
                  return False
17
           return True
18
19 class Solution2:
       def checkRecord(self, s):
20
21
22
           :type s: str
23
           :rtype: bool
           0.00
24
25
           import re
           # return re.match(r'^\d{3}\-\d{3,8}$', '010-12345')
26
           return not re.match(r'[ALP]*[L]{3}[ALP]*|[ALP]*A[ALP]*A[ALP]*', s)
27
28
29 class Solution3:
30
       def checkRecord(self, s):
```

```
0.00
31
32
           :type s: str
33
           :rtype: bool
           0.000
34
35
           import re
           # return not re.match(r'.*LLL.*|.*A.*A.*', s)
36
37
           return not re.match(r'.*(LLL|A.*A).*', s)
38
39 class Solution4:
40
       def checkRecord(self, s):
41
42
           :type s: str
43
           :rtype: bool
           0.000
44
45
           import re
46
           return not re.search('A.*A|LLL', s)
47
48
49 class Solution5:
50
       def checkRecord(self, s):
51
52
           :type s: str
53
           :rtype: bool
54
55
           return s.find('A') == s.rfind('A') and s.find('LLL') == -1
56
           #find不存在时返回-1, index不存在报错
57
   class Solution6:
58
       def checkRecord(self, s):
59
60
           :type s: str
61
           :rtype: bool
62
63
           return not (s.count('A') > 1) or 'LLL' in s)
```

## Solution for C++:

```
1 class Solution1 {
2
    public:
 3
        bool checkRecord(string s) {
4
            int Acnt = 0, Lcnt = 0;
5
            for (int i = 0; i < s.length(); i++) {</pre>
                 if (s[i] == 'L') {
6
7
                     if (++Lcnt == 3)
8
                          return false;
                 } else {
9
10
                     if (s[i] == 'A') {
11
                          if (++Acnt == 2)
12
                              return false;
13
14
                     Lcnt = 0;
15
                 }
16
17
            return true;
18
        }
```

```
19 };
20
21
22 class Solution2 {
23 public:
24
        bool checkRecord(string s) {
25
            return !regex_match(s, regex(".*(LLL|A.*A).*"));
            // return !regex_match(s, regex(".*LLL.*|.*A.*A.*"));
26
27
        }
28
   };
29
30 class Solution3 {
31 public:
32
       bool checkRecord(string s) {
            return !regex_search(s, regex("A.*A|LLL"));
33
34
       }
35
   };
36
37
   class Solution4 {
38 public:
39
       bool checkRecord(string s) {
           return s.find_first_of('A') == s.find_last_of('A') && s.find("LLL")
40
41
   == -1;
42
        }
   };
```