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Description Accepted Editorial Solutions Submissions

3687. Library Late Fee Calculator Premium

Solved

Easy Topics Hint

You are given an integer array `daysLate` where `daysLate[i]` indicates how many days late the i^{th} book was returned.

The penalty is calculated as follows:

- If `daysLate[i] == 1`, penalty is 1.
- If $2 \leq daysLate[i] \leq 5$, penalty is $2 * daysLate[i]$.
- If $daysLate[i] > 5$, penalty is $3 * daysLate[i]$.

Return the total penalty for all books.

Example 1:

Input: `daysLate = [5, 1, 7]`
Output: 32

Explanation:

- `daysLate[0] = 5`: Penalty is $2 * daysLate[0] = 2 * 5 = 10$.
- `daysLate[1] = 1`: Penalty is 1.
- `daysLate[2] = 7`: Penalty is $3 * daysLate[2] = 3 * 7 = 21$.
- Thus, the total penalty is $10 + 1 + 21 = 32$.

Example 2:

Input: `daysLate = [1, 1]`
Output: 2

Explanation:

- `daysLate[0] = 1`: Penalty is 1.
- `daysLate[1] = 1`: Penalty is 1.
- Thus, the total penalty is $1 + 1 = 2$.

Constraints:

- $1 \leq daysLate.length \leq 100$
- $1 \leq daysLate[i] \leq 100$

Seen this question in a real interview before? 1/5

Yes No

Accepted 1,203 / 1.3K | Acceptance Rate 94.7 %

Topics

Hint 1

Discussion (7)

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5 7 | 0 Online Expected

Code

Python3

```
1 class Solution:
2     def lateFee(self, daysLate: List[int]) -> int:
3
4         penalty = 0
5
6         for i in range(0, len(daysLate)):
7             if daysLate[i] == 1:
8                 penalty += 1
9             elif daysLate[i] >= 2 and daysLate[i] <= 5:
10                penalty += 2 * daysLate[i]
11            else:
12                penalty += 3 * daysLate[i]
13
14     return penalty
15
```

Ln 6, Col 42

Testcase **Test Result**

Accepted Runtime: 0 ms

Case 1 Case 2

Input: `daysLate = [5, 1, 7]`

Output: 32