

Problem List

DescriptionAcceptedEditorialSolutionsSubmissions

### 3687. Library Late Fee Calculator

EasyTopicsHint

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

The penalty is calculated as follows:

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

Return the total penalty for all books.

Example 1:

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

Output: 32

Explanation:

- `daysLate[0] = 5`: Penalty is  $2 * \text{daysLate}[0] = 2 * 5 = 10$ .
- `daysLate[1] = 1`: Penalty is 1.
- `daysLate[2] = 7`: Penalty is  $3 * \text{daysLate}[2] = 3 * 7 = 21$ .
- 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:

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

Seen this question in a real interview before?

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

Auto

```
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
```

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Testcase

Test Result

AcceptedRuntime: 0 ms

Case 1

Case 2

Input

daysLate =  
[5,1,7]

Output

32