

Problem 2180: Count Integers With Even Digit Sum

Problem Information

Difficulty: Easy

Acceptance Rate: 69.44%

Paid Only: No

Tags: Math, Simulation

Problem Description

Given a positive integer `num`, return _the number of positive integers**less than or equal to**_ `num` _whose digit sums are**even**_.

The **digit sum** of a positive integer is the sum of all its digits.

Example 1:

Input: num = 4 **Output:** 2 **Explanation:** The only integers less than or equal to 4 whose digit sums are even are 2 and 4.

Example 2:

Input: num = 30 **Output:** 14 **Explanation:** The 14 integers less than or equal to 30 whose digit sums are even are 2, 4, 6, 8, 11, 13, 15, 17, 19, 20, 22, 24, 26, and 28.

Constraints:

* `1 <= num <= 1000`

Code Snippets

C++:

```
class Solution {  
public:  
    int countEven(int num) {  
  
    }  
};
```

Java:

```
class Solution {  
public int countEven(int num) {  
  
}  
}
```

Python3:

```
class Solution:  
    def countEven(self, num: int) -> int:
```