

# 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:
```