

# Problem 1281: Subtract the Product and Sum of Digits of an Integer

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 86.54%

**Paid Only:** No

**Tags:** Math

## Problem Description

Given an integer number `n`, return the difference between the product of its digits and the sum of its digits.

**Example 1:**

**Input:** n = 234 **Output:** 15 **Explanation:** Product of digits =  $2 * 3 * 4 = 24$  Sum of digits =  $2 + 3 + 4 = 9$  Result =  $24 - 9 = 15$

**Example 2:**

**Input:** n = 4421 **Output:** 21 **Explanation:** Product of digits =  $4 * 4 * 2 * 1 = 32$  Sum of digits =  $4 + 4 + 2 + 1 = 11$  Result =  $32 - 11 = 21$

**Constraints:**

$1 \leq n \leq 10^5$

## Code Snippets

**C++:**

```
class Solution {
public:
    int subtractProductAndSum(int n) {
```

```
    }  
};
```

**Java:**

```
class Solution {  
    public int subtractProductAndSum(int n) {  
  
    }  
}
```

**Python3:**

```
class Solution:  
    def subtractProductAndSum(self, n: int) -> int:
```