

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 <= n <= 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:
```