# Problem 1837: Sum of Digits in Base K

## Problem Information

**Difficulty:** Easy
**Acceptance Rate:** 78.32%
**Paid Only:** No
**Tags:** Math

## Problem Description

Given an integer `n` (in base `10`) and a base `k`, return _the**sum** of the digits of _`n` _**after** converting _`n` _from base_`10` _to base_`k`.

After converting, each digit should be interpreted as a base `10` number, and the sum should be returned in base `10`.

**Example 1:**

**Input:** n = 34, k = 6 **Output:** 9 **Explanation:** 34 (base 10) expressed in base 6 is 54. 5 + 4 = 9.

**Example 2:**

**Input:** n = 10, k = 10 **Output:** 1 **Explanation:** n is already in base 10. 1 + 0 = 1.

**Constraints:**

* `1 <= n <= 100` * `2 <= k <= 10`

## Code Snippets

**C++:**

```
class Solution {
public:
```

```
int sumBase(int n, int k) {

}
};
```

**Java:**

```
class Solution {
public int sumBase(int n, int k) {

}
}
```

**Python3:**

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