

Full Stack Web Development

# Exercise

# Exercise

- Create a function to convert Excel sheet column title to its corresponding column number.
- **Example :**

A -> 1

B -> 2

C -> 3

...

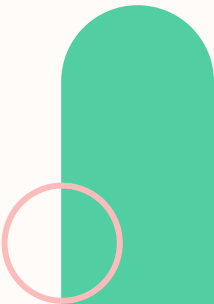
Z -> 26

AA -> 27

AB -> 28

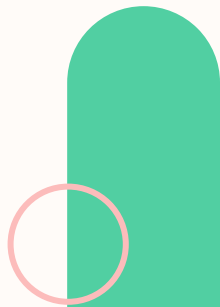
...

- **Example :**
  - Input : AB
  - Output : 28



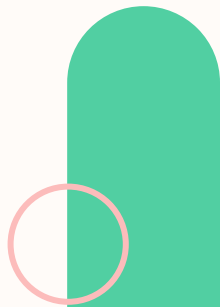
# Exercise

- Given a non-empty array of integers `nums`, every element appears twice except for one. Find that single one.
- **Example 1:**
  - Input: `nums = [2,2,1]`
  - Output: 1
- **Example 2:**
  - Input: `nums = [4,1,2,1,2]`
  - Output: 4
- **Example 3:**
  - Input: `nums = [1]`
  - Output: 1



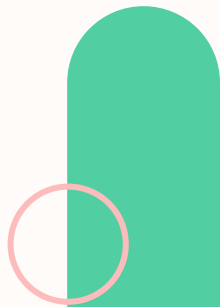
# Exercise

- Given two strings **s** and **t**, return true *if t is an anagram of s, and false otherwise*.
- An **Anagram** is a word or phrase formed by rearranging the letters of a different word or phrase, typically using all the original letters exactly once.
- **Example 1:**
  - Input: s = "anagram", t = "nagaram"
  - Output: true
- **Example 2:**
  - Input: s = "rat", t = "car"
  - Output: false



# Exercise

- You are climbing a staircase. It takes  $n$  steps to reach the top. Each time you can either climb 1 or 2 steps. In how many distinct ways can you climb to the top?
- **Example 1:**
  - **Input:**  $n = 2$
  - **Output:** 2
  - **Explanation:** There are two ways to climb to the top.
    - 1. 1 step + 1 step
    - 2. 2 steps
- **Example 2:**
  - **Input:**  $n = 3$
  - **Output:** 3
  - **Explanation:** There are three ways to climb to the top.
    - 1. 1 step + 1 step + 1 step
    - 2. 1 step + 2 steps
    - 3. 2 steps + 1 step



# Thank You!

