

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

- Given a non-empty array of integers `nums`, every element appears twice except for one. Find that single one.
- You must implement a solution with a linear runtime complexity and use only constant extra space.
- **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

- 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!

