**Problem #1047: Remove All Adjacent Duplicates in String**

<https://leetcode.com/problems/remove-all-adjacent-duplicates-in-string/description/>

My Solution:

1. Inialize a stack called s\_stack as an empty list.
2. Traverse through s. If the stack is empty, then append the letter in s to the stack.
3. If the stack is not empty, compare the last letter in the stack to the current letter in s. If they are the same, then pop the stack (i.e. remove the last letter in the stack). Otherwise, append the letter to the stack.
4. Join the letters in the stack to form a string and return this string.

class Solution:

def removeDuplicates(self, s: str) -> str:

s\_stack = []

for letter in s:

if len(s\_stack) == 0:

s\_stack.append(letter)

else:

if s\_stack[-1] == letter:

s\_stack.pop()

else:

s\_stack.append(letter)

return "".join(s\_stack)