<u>Problem:</u> Given 2 strs, S and T return if they equal when both are typed out. Any '#' counts as backspace (# deletes the previous character)

"cb#d" -> cd

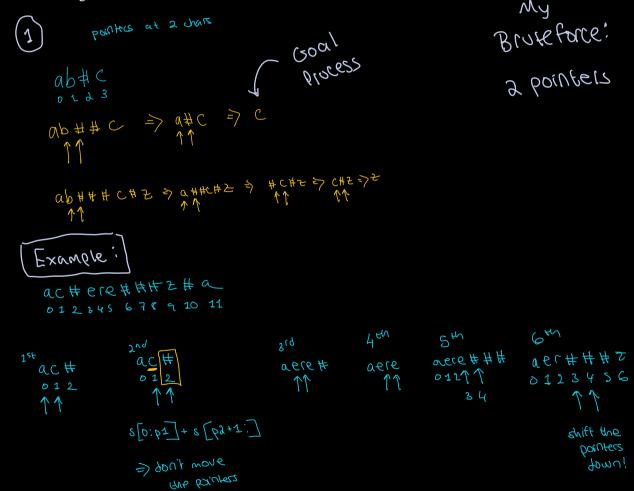
S: "ab#c" -> ac T: "az#c" -> ac return True

Intro:

- Verify Constraints
 - 2 #'s in a row? "ab##" -> ""
 - #'s if no character to remove: "a###b" -> "b"
 - Are two emptry strings equal to each other -> yes "" == ""
 - case sensitivity matters? yes "a" != "A"
- Create Testcases

Brute Force:

• Brainstorming & Pattern Observations

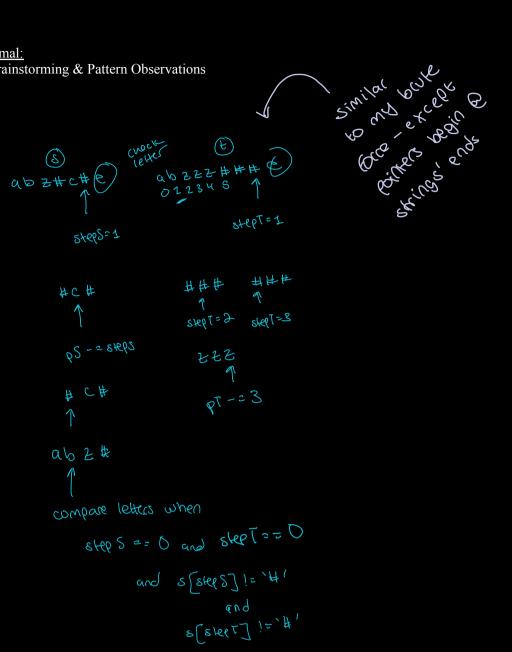


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Time: O(a+b) = O(a) + O(b)Space: O(a+b) + O(a) + O(b)

Optimal:





- Pseudocode
- Write code
- Run through testcases
- Analyze time and space complexity

Time: O(a+b) Space: O(1)