**820. Short Encoding of Words**

Medium

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A **valid encoding** of an array of words is any reference string s and array of indices indices such that:

* words.length == indices.length
* The reference string s ends with the '#' character.
* For each index indices[i], the **substring** of s starting from indices[i] and up to (but not including) the next '#' character is equal to words[i].

Given an array of words, return *the****length of the shortest reference string***s*possible of any****valid encoding****of*words*.*

**Example 1:**

**Input:** words = ["time", "me", "bell"]

**Output:** 10

**Explanation:** A valid encoding would be s = "time#bell#" and indices = [0, 2, 5].

words[0] = "time", the substring of s starting from indices[0] = 0 to the next '#' is underlined in "time#bell#"

words[1] = "me", the substring of s starting from indices[1] = 2 to the next '#' is underlined in "time#bell#"

words[2] = "bell", the substring of s starting from indices[2] = 5 to the next '#' is underlined in "time#bell#"

**Example 2:**

**Input:** words = ["t"]

**Output:** 2

**Explanation:** A valid encoding would be s = "t#" and indices = [0].

**Constraints:**

* 1 <= words.length <= 2000
* 1 <= words[i].length <= 7
* words[i] consists of only lowercase letters.

Accepted

15,845

Submissions

30,727