

## 2707. Extra Characters in a String

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You are given a **0-indexed** string `s` and a dictionary of words `dictionary`. You have to break `s` into one or more **non-overlapping** substrings from the dictionary so that all characters in `s` are covered by these substrings. If there is no way to break `s` into these substrings, return `-1`. Otherwise, return the *minimum* number of extra characters left over if you break up `s` optimally.

### Example 1:

**Input:** `s = "leetcode", dictionary = ["leet","code","leetcode"]`  
**Output:** `1`  
**Explanation:** We can break `s` in two substrings: "leet" from index 0 to 3 and "code" from index 4 to 7. There is 1 extra character 'e' left over.

### Example 2:

**Input:** `s = "sayhelloworld", dictionary = ["hello","world"]`  
**Output:** `3`  
**Explanation:** We can break `s` in two substrings: "hello" from index 3 to 7 and "world" from index 8 to 12. There are 3 extra characters 's','y','a' left over.

### Constraints:

- `1 <= s.length <= 50`
- `1 <= dictionary.length <= 50`
- `1 <= dictionary[i].length <= 50`
- `dictionary[i]` and `s` consists of only lowercase English letters
- `dictionary` contains distinct words

Seen this question in a real interview before? 1/4

☒ Yes ☐ No

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 Hint 1

 Hint 2

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