

Problem 936: Stamping The Sequence

Problem Information

Difficulty: Hard

Acceptance Rate: 62.09%

Paid Only: No

Tags: String, Stack, Greedy, Queue

Problem Description

You are given two strings `stamp` and `target`. Initially, there is a string `s` of length `target.length` with all `s[i] == '?'`.

In one turn, you can place `stamp` over `s` and replace every letter in the `s` with the corresponding letter from `stamp`.

* For example, if `stamp = "abc"` and `target = "abcba"`, then `s` is `?????` initially. In one turn you can: * place `stamp` at index `0` of `s` to obtain `abc??`, * place `stamp` at index `1` of `s` to obtain `?abc?`, or * place `stamp` at index `2` of `s` to obtain `??abc`. Note that `stamp` must be fully contained in the boundaries of `s` in order to stamp (i.e., you cannot place `stamp` at index `3` of `s`).

We want to convert `s` to `target` using **at most** `10 * target.length` turns.

Return _an array of the index of the left-most letter being stamped at each turn_. If we cannot obtain `target` from `s` within `10 * target.length` turns, return an empty array.

Example 1:

Input: stamp = "abc", target = "ababc" **Output:** [0,2] **Explanation:** Initially s = "?????". - Place stamp at index 0 to get "abc??" . - Place stamp at index 2 to get "ababc". [1,0,2] would also be accepted as an answer, as well as some other answers.

Example 2:

****Input:**** stamp = "abca", target = "aabcaca" ****Output:**** [3,0,1] ****Explanation:**** Initially s = "???????" . - Place stamp at index 3 to get "???abca". - Place stamp at index 0 to get "abcabca". - Place stamp at index 1 to get "aabcaca".

****Constraints:****

* `1 <= stamp.length <= target.length <= 1000` * `stamp` and `target` consist of lowercase English letters.

Code Snippets

C++:

```
class Solution {  
public:  
vector<int> movesToStamp(string stamp, string target) {  
  
}  
};
```

Java:

```
class Solution {  
public int[] movesToStamp(String stamp, String target) {  
  
}  
}
```

Python3:

```
class Solution:  
def movesToStamp(self, stamp: str, target: str) -> List[int]:
```