

# 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]:
```