

# Problem 459: Repeated Substring Pattern

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 47.43%

**Paid Only:** No

**Tags:** String, String Matching

## Problem Description

Given a string `s`, check if it can be constructed by taking a substring of it and appending multiple copies of the substring together.

**Example 1:**

**Input:** `s = "abab"` **Output:** `true` **Explanation:** It is the substring "ab" twice.

**Example 2:**

**Input:** `s = "aba"` **Output:** `false`

**Example 3:**

**Input:** `s = "abcabcabcabc"` **Output:** `true` **Explanation:** It is the substring "abc" four times or the substring "abcabc" twice.

**Constraints:**

`1 <= s.length <= 104` `s` consists of lowercase English letters.

## Code Snippets

**C++:**

```
class Solution {  
public:  
    bool repeatedSubstringPattern(string s) {  
  
    }  
};
```

### Java:

```
class Solution {  
    public boolean repeatedSubstringPattern(String s) {  
  
    }  
}
```

### Python3:

```
class Solution:  
    def repeatedSubstringPattern(self, s: str) -> bool:
```