

## 459. Repeated Substring Pattern

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- Difficulty: **Easy**
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Given a non-empty string check if it can be constructed by taking a substring of it and appending multiple copies of the substring together. You may assume the given string consists of lowercase English letters only and its length will not exceed 10000.

### Example 1:

Input: "abab"

Output: True

Explanation: It's the substring "ab" twice.

### Example 2:

Input: "aba"

Output: False

Input: "abcabcabcabc"

Output: True

Explanation: It's the substring "abc" four times. (And the substring "abcabc" twice.)

```
class Solution {
public:
    bool repeatedSubstringPattern(string str) {
        int l = str.size();
        for(int i=l/2;i>=1;i--)
        {
            if(l%i==0)
            {
                int m = l/i;
                string tmp = str.substr(0,i);
```

```
        string res = "";
        for(int j=0;j<m;j++) res+=tmp;
        if(res == str) return true;
    }
    return false;
};
```