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### Leetcode May Challenge DAY: 18

#### 1. Python

---

class Solution:

```
def checkInclusion(self, s1: str, s2: str) -> bool:
```

```
    if len(s1)==0 and len(s2)==0 :
```

```
        return False
```

```
    a=[0]*26
```

```
    for each in s1 :
```

```
        a[ord(each)-ord("a")] +=1
```

```
    i,j=0,len(s1)
```

```
    l=[]
```

```
    while j<len(s2)+1 :
```

```
        l=s2[i:j]
```

```
        t=[0]*26
```

```
        for each in l :
```

```
            t[ord(each)-ord("a")] +=1
```

```
        if a==t :
```

```
            return True
```

```
        t[ord(s2[i])-ord("a")] -=1
```

```
        i+=1
```

```
        j+=1
```

```
    return False
```

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## 2. C++

---

```
class Solution {
public:
    bool checkInclusion(string s1, string s2) {
        int n = s1.size(), m = s2.size(), ar[26] = {0}, currCount = n, start = 0;
        for(auto c : s1) ++ar[c-'a'];
        for(int i = 0; i < m; i++) {
            if (ar[s2[i]-'a']-- > 0) --currCount;
            while(currCount == 0) {
                if ((i - start + 1) == n) return true;
                if (ar[s2[start++]-'a']++ == 0) ++currCount;
            }
        }
        return false;
    }
};
```

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### 3. JAVA

---

```
class Solution {  
    public boolean checkInclusion(String s1, String s2) {  
        int[] count = new int[128];  
        for (char c: s1.toCharArray()) count[c]++;  
        int start = 0, end = 0;  
        while (end < s2.length()) {  
            count[s2.charAt(end)]--;  
            while (count[s2.charAt(end)] < 0) {  
                count[s2.charAt(start++)]++;  
            }  
            if (end - start + 1 == s1.length()) return true;  
            end++;  
        }  
        return false;  
    }  
}
```