All Anagrams

```python
class Solution(object):
  def allAnagrams(self, sh, lo):
    """
    input: string sh, string lo
    return: Integer[]
    """
    # write your solution here
    result = []
    if not sh or not lo:
      return result
    if len(sh) > len(lo):
      return result
    counter = self.countMap(sh)
    match = 0
    for i in range(len(lo)):
      letter = lo[i]
      if letter in counter:
        counter[letter] -= 1
        if counter[letter] == 0:
          match += 1
      if i > len(sh) - 1:
        tmp = lo[i - len(sh)]
        if tmp in counter:
          counter[tmp] += 1
          if counter[tmp] == 1:
            match -= 1
      if match == len(counter):
        result.append(i - len(sh) + 1)
    return result

  def countMap(self, s):
    dic = {}
    for c in s:
      if c in dic:
        dic[c] += 1
      else:
        dic[c] = 1
    return dic
```