LeetCode Bootcamp Week 2 Submission Submitted By: Raunak Choudhary (NetID: rc5553)

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Question1: String to Integer (atoi)
Code:
class Solution(object):
  def myAtoi(self, s):
     MAX INT = 2**31 - 1
     MIN INT = -2**31
     i = 0
     n = len(s)
     result = 0
     sign = 1
     while i < n and s[i] == ' ':
       i += 1
     if i == n:
        return 0
     if s[i] == '+' \text{ or } s[i] == '-':
        sign = -1 if s[i] == '-' else 1
       i += 1
     while i < n and s[i].isdigit():
       digit = int(s[i])
       if (result > MAX_INT // 10) or (result == MAX_INT // 10 and digit > 7):
          return MAX_INT if sign == 1 else MIN_INT
       result = result * 10 + digit
       i += 1
     return sign * result
```

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Code:
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```
class Solution(object):
  def findAnagrams(self, s, p):
     if len(s) < len(p):
       return []
     result = []
     p len = len(p)
     count = \{\}
     for char in p:
       count[char] = count.get(char, 0) + 1
     required = len(count)
     matched = 0
     left = 0
     for right in range(len(s)):
       if s[right] in count:
          count[s[right]] -= 1
          if count[s[right]] == 0:
             matched += 1
       if right >= p_len:
          if s[left] in count:
            if count[s[left]] == 0:
               matched -= 1
            count[s[left]] += 1
          left += 1
       if matched == required:
          result.append(left)
```

return result

Question3: Reverse Words in a String

Code:

```
class Solution(object):
  def reverseWords(self, s):
     left, right = 0, len(s) - 1
     while left <= right and s[left] == ' ':
       left += 1
     while right >= left and s[right] == ' ':
       right = 1
     word, words = [], []
     while left <= right:
       if s[left] != ' ':
          word.append(s[left])
       elif word:
          words.append(".join(word))
          word = []
       left += 1
     if word:
       words.append(".join(word))
     return ' '.join(words[::-1])
```