Problem # 1291: Sequential Digits

https://leetcode.com/problems/sequential-digits/

Solution:

<https://leetcode.com/problems/sequential-digits/discuss/854779/Simple-Python-3-Solution-Runtime-beats-98.68-and-Memory-Usage-beats-95.53>

1. Get the lengths of low and high strings.
2. Initialize result list.
3. Iterate for number of digits from length of low to length of high (both inclusive).
4. Iterate from 1 to 11 - number of digits ( to create a string of the length equal to number of digits).
5. iterate from 0 to num of digits (the end of the range is not included) to create elements in the string of the length we want.
6. Convert the string to an integer and check it is between low and high. If so, append it to the result list.
7. Return result list.

class Solution:

def sequentialDigits(self, low: int, high: int) -> List[int]:

low\_len = len(str(low))

high\_len = len(str(high))

result = []

for num\_digits in range(low\_len, high\_len + 1):

for i in range(1, 11 - num\_digits):

astring = ""

for j in range(num\_digits):

astring += str(i+j)

num = int(astring)

if num >= low and num <= high:

result.append(num)

return(result)

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