Problem # 1094: Car Pooling (Medium)

<https://leetcode.com/problems/car-pooling/>

My Solution:

<https://leetcode.com/problems/car-pooling/discuss/858646/Simple-Python-3-Solution-using-dictionary>

1. Create an empty dictionary.
2. Iterate through the list of trips. For each trip, get num\_passengers, start\_loc and end\_loc.
3. For each integer in the range from start\_loc to end\_loc (the end\_loc not being included as people will get off), make the integer the key in the dictionary and the value will be the num\_passengers if key is not there in the dictionary. However, if key already exists in the dictionary, add num\_passengers to the value.
4. If the value in the dictionary exceeds capacity, return False.
5. In the end if the whole list of trips has been iterated successfully, this mean that the capacity was not exceeded and so return True.

class Solution:

def carPooling(self, trips: List[List[int]], capacity: int) -> bool:

adict = {}

for num\_passengers, start\_loc, end\_loc in trips:

for i in range(start\_loc, end\_loc):

if i not in adict.keys():

adict[i] = num\_passengers

else:

adict[i] += num\_passengers

if adict[i] > capacity:

return(False)

return(True)