Problem # 1603 : Design Parking System

<https://leetcode.com/problems/design-parking-system/>

My Solution:

<https://leetcode.com/problems/design-parking-system/discuss/906723/Simple-Python-3-Solution-Runtime-beats-96.95>

Simple Python 3 Solution -- Runtime beats 96.95%

1. Initialize the Parking System in def **init**.
2. If carType is 1 and if there are big cars available, decrement number of big cars by 1 and return True. Otherwise return False.
3. If carType is 2 and if there are medium cars available, decrement number of medium cars by 1 and return True. Otherwise return False.
4. If carType is 3 and if there are small cars available, decrement number of small cars by 1 and return True. Otherwise return False.

class ParkingSystem:

def \_\_init\_\_(self, big: int, medium: int, small: int):

self.big = big

self.medium = medium

self.small = small

def addCar(self, carType: int) -> bool:

if carType == 1:

if self.big > 0:

self.big -= 1

return True

else:

return False

elif carType == 2:

if self.medium > 0:

self.medium -= 1

return True

else:

return False

else:

if self.small > 0:

self.small -= 1

return True

else:

return False

# Your ParkingSystem object will be instantiated and called as such:

# obj = ParkingSystem(big, medium, small)

# param\_1 = obj.addCar(carType)