**Problem #1773: Count Items Matching a Rule**

<https://leetcode.com/problems/count-items-matching-a-rule/description/>

**My Solution: Best is Solution #3 using a dictionary.**

**Solution 1:**

class Solution:

def countMatches(self, items: List[List[str]], ruleKey: str, ruleValue: str) -> int:

count = 0

if ruleKey == "color":

for item in items:

if item[1] == ruleValue:

count += 1

elif ruleKey == "type":

for item in items:

if item[0] == ruleValue:

count += 1

else:

for item in items:

if item[2] == ruleValue:

count += 1

return count

**Solution 2:**

class Solution:

def countMatches(self, items: List[List[str]], ruleKey: str, ruleValue: str) -> int:

if ruleKey == "type":

index = 0

elif ruleKey == "color":

index = 1

else:

index = 2

count = 0

for item in items:

if ruleValue == item[index]:

count += 1

return count

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**Solution 3: Using dictionary – Best solution and it is the fastest.**

1. Create a dictionary mydict with “type” as 0, “color” as 1 and “name” as 2.
2. Initialize count to 0.
3. Iterate through each item in items.

Get the ruleValue and compare it with the value from the item based on the ruleKey from mydict. If they match, then increment count by 1.

1. Return the count.

class Solution:

def countMatches(self, items: List[List[str]], ruleKey: str, ruleValue: str) -> int:

mydict = {"type" : 0, "color" : 1, "name": 2}

count = 0

for item in items:

if ruleValue == item[mydict[ruleKey]]:

count += 1

return count

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