#!/usr/bin/python

import sys

currentKey = None

valsTowed = None

valsReloc = None

TotalCount = 0

# input comes from STDIN

for line in sys.stdin:

split = line.strip().split('\t')

key = split[0]

value = '\t'.join(split[1:])

if currentKey == key: # Same key

if value.endswith('TowedVehicle'):

valsTowed.append(value)

if value.endswith('RelocatedVehicle'):

valsReloc.append(value)

else:

if currentKey:

lenTowed = len(valsTowed)

lenReloc = len(valsReloc)

if (lenTowed\*lenReloc > 0):

# Join means that there have to be rows on each side

print currentKey, '\t', lenTowed\*lenReloc

valsTowed = []

valsReloc = []

currentKey = key

if value.endswith('TowedVehicle'):

valsTowed = [value]

valsReloc = []

elif value.endswith('RelocatedVehicle'):

valsTowed = []

valsReloc = [value]

lenTowed = len(valsTowed)

lenReloc = len(valsReloc)

if (lenTowed\*lenReloc > 0):

# Join means that there have to be rows on each side

print currentKey, '\t', lenTowed\*lenReloc

lenTowedLast = len(valsTowed)

lenRelocLast = len(valsReloc)

if (lenTowedLast\*lenRelocLast > 0):

# Join means that there have to be rows on each side

print currentKey, '\t', lenTowedLast\*lenRelocLast