EXPERIMENT 8

Python program for cryptarithmetic puzzles

import itertools

def solve2():

letters = ('s', 'e', 'n', 'd', 'm', 'o', 'r', 'y')

digits = range(10)

for perm in itertools.permutations(digits, len(letters)):

sol = dict(zip(letters, perm))

if sol['s'] == 0 or sol['m'] == 0:

continue

send = 1000 \* sol['s'] + 100 \* sol['e'] + 10 \* sol['n'] + sol['d']

more = 1000 \* sol['m'] + 100 \* sol['o'] + 10 \* sol['r'] + sol['e']

money = 10000 \* sol['m'] + 1000 \* sol['o'] + 100 \* sol['n'] + 10 \* sol['e'] + sol['y']

if send + more == money:

print(" send"," more"," money")

return send, more, money

print(solve2())

OUTPUT

