Exercise 4

import itertools

letters = 'SENDMORY'

for p in itertools.permutations('0123456789', len(letters)):

s = dict(zip(letters, p))

if s['S'] != '0' and s['M'] != '0':

send = int(s['S']+s['E']+s['N']+s['D'])

more = int(s['M']+s['O']+s['R']+s['E'])

money = int(s['M']+s['O']+s['N']+s['E']+s['Y'])

if send + more == money:

print(f"{send} + {more} = {money}")

break

