import itertools

def solve\_cryptarithmetic():

letters = 'SENDMORY' # Unique letters in the equation

digits = range(10)

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

mapping = dict(zip(letters, perm))

# Ensure no leading digit is 0

if mapping['S'] == 0 or mapping['M'] == 0:

continue

# Construct numbers from letter-digit mapping

send = (1000 \* mapping['S'] +

100 \* mapping['E'] +

10 \* mapping['N'] +

mapping['D'])

more = (1000 \* mapping['M'] +

100 \* mapping['O'] +

10 \* mapping['R'] +

mapping['E'])

money = (10000 \* mapping['M'] +

1000 \* mapping['O'] +

100 \* mapping['N'] +

10 \* mapping['E'] +

mapping['Y'])

if send + more == money:

print(f"SEND = {send}")

print(f"MORE = {more}")

print(f"MONEY = {money}")

print("Mapping:", mapping)

return

print("No solution found.")

solve\_cryptarithmetic()

