from itertools import permutations

def is\_valid(assignment):

S, E, N, D, M, O, R, Y = assignment

return (1000\*S + 100\*E + 10\*N + D) + (1000\*M + 100\*O + 10\*R + E) == (10000\*M + 1000\*O + 100\*N + 10\*E + Y)

for perm in permutations(range(10), 8):

if is\_valid(perm):

print(f"SEND + MORE = MONEY: {perm}")

