```
import time
import itertools
def solution1():
  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
def solution2():
  letters = ('c', 'r', 'o', 's', 'a', 'd', 'n', 'g', 'e')
  digits = range(10)
  for perm in itertools.permutations(digits, len(letters)):
    sol = dict(zip(letters, perm))
    if sol['c'] == 0 or sol['r'] == 0:
       continue
    cross = 10000 * sol['c'] + 1000 * sol['r'] + 100 * sol['o'] + 10 * sol['s'] + sol['s']
    roads = 10000 * sol['r'] + 1000 * sol['o'] + 100 * sol['a'] + 10 * sol['d'] + sol['s']
```