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#Aim: To write Python program for Cryptarithmetic Problem
from itertools import permutations
def solve cryptarithmetic(puzzle):
    letters = set([char for char in puzzle if char.isalpha()])
    if len(letters) > 10:
        return "Invalid puzzle - Too many letters"
    for perm in permutations ('0123456789', len(letters)):
        mapping = dict(zip(letters, perm))
        if mapping[puzzle[0]] == '0'or
mapping[puzzle[len(puzzle)//2+1]] == '0':
            continue
        equation = puzzle.translate(str.maketrans(mapping))
        if eval(equation):
            return {letter: int(mapping[letter]) for letter in
letters}
    return "No solution found"
puzzle = "MOON + SOON + JUNE"
solution = solve cryptarithmetic(puzzle)
if isinstance(solution, dict):
    print("Solution found:")
    for key, value in solution.items():
        print(f"{key} = {value}")
else:
    print(solution)
 N = 1
 E = 0
 U = 2
 M = 3
 S = 4
 J = 5
 0 = 6
 Process finished with exit code 0
```