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import array

A = [ 0.0 for x in range(9)]
B = [ 0.0 for x in range(9)]
b = [ 0.0 for x in range(3)]

A[0] = 3
A[1] = 4
A[2] = 5
A[3] = 5
A[4] = 6
A[5] = 7
A[6] = 4
A[7] = 5
A[8] = 0

b[0] = 10
b[1] = 12
b[2] = 15

def determinant3by3():
    d0 = A[0] * A[4] * A[8]
    d1 = A[1] * A[5] * A[6]
    d2 = A[2] * A[3] * A[7]
    d3 = A[1] * A[3] * A[8]
    d4 = A[0] * A[5] * A[7]
    d5 = A[2] * A[4] * A[6]

    return d0 + d1 + d2 - d3 - d4 - d5

def X(det):
    for i in range(0, 8, 1):
        B[i] = A[i]

    A[0] = b[0]
    A[3] = b[1]
    A[6] = b[2]

    x = determinant3by3()

    print("f = ", x)

    for i in range(0, 8, 1):
        A[i] = B[i]

    return x / det

def Y(det):
    for i in range(0, 8, 1):
        B[i] = A[i]
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A[1] = b[0]
A[4] = b[1]
A[7] = b[2]

y = determinant3by3()

print("g = ", y)

for i in range(0, 8, 1):
    A[i] = B[i]

return y / det

def Z(det):
    for i in range(0, 8, 1):
        B[i] = A[i]

    A[2] = b[0]
    A[5] = b[1]
    A[8] = b[2]

    z = determinant3by3()

    print("h = ", z)

    for i in range(0, 8, 1):
        A[i] = B[i]

    return z / det

d = determinant3by3()

print("d = ", d)

x = X(d)
y = Y(d)
z = Z(d)

print("x = ", x)
print("y = ", y)
print("z = ", z)
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