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from PIL import Image
import sympy
import random

im = Image.open('camel3.png')
rgb_im = im.convert('RGB')
zero = "0"
width, height = im.size
x = sympy.symbols('x')
random_numbers=[]
for i in range(int(height)*int(width)):
    r=random.randint(1,100)
    if r not in random_numbers: random_numbers.append(r)
print(random_numbers)
z = 0
o = z + 1
def linterpolation(y, xs=None):
    if xs is None:
        xs = list(range(1, len(y) + 1))
    assert len(y) == len(xs)
    result = z
    for j, (xj, yj) in enumerate(zip(xs, y)):
        polynomial = o
        for m, xm in enumerate(xs):
            if m != j:
                polynomial *= (x - xm) / (xj - xm)
        result += yj * polynomial
    a = sympy.expand(result)
    return a.evalf()

def color(l):

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if len(str(l)) == 1:
    l_2 = zero + zero + str(l)
    return str(l_2)
elif len(str(l)) == 2:
    l_3 = zero + str(l)
    return str(l_3)
else:
    return l

def total(d,y,z):
    total_1 = str(d) + str(y) + str(z)
    return total_1

set1 = []
for t in range(0, int(height)):
    for v in range (0, int(width)):
        r, g, b = rgb_im.getpixel((v, t))
        initial = total(str(color(r)), str(color(g)), str(color(b)))
        set1.append(int(initial))
print(linterpolation(set1 , random_numbers))

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