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1 import sympy
2 from PIL import Image
3 im = Image.open('IMAGE HERE')
4 rgb_im = im.convert('RGB')
5 width, height = im.size
6 x = sympy.symbols('x')
7 z = x - x
8 o = z + 1
9 def linterpolation(y, xs=None):
10     if xs is None:
11         xs = list(range(1, len(y) + 1))
12     assert len(y) == len(xs)
13     result = z
14     for j, (xj, yj) in enumerate(zip(xs, y)):
15         polynomial = o
16         for m, xm in enumerate(xs):
17             if m != j:
18                 polynomial *= (x - xm) / (xj - xm)
19         result += yj * polynomial
20     return sympy.expand(result).evalf()
21 def color(l):
22     if len(str(l)) == 1:
23         l_2 = zero + zero + str(l)
24         return str(l_2)
25     elif len(str(l)) == 2:
26         l_3 = zero + str(l)
27         return str(l_3)
28     else:
29         return l
30 def total(d,y,z):
31     total_1 = str(d) + str(y) + str(z)
32     return total_1
33 set1 = []
34 for t in range(0, int(height)):
35     for v in range (0, int(width)):
36         r, g, b = rgb_im.getpixel((v, t))

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37         initial = total(str(color(r)), str(color(g)), str(color(b)))
38         set1.append(int(initial))
39 print(linterpolation(set1))
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