```
from PIL import Image
import sympy
import random
im = Image.open("IMAGE HERE")
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(-10000,10000)
    if r not in random_numbers: random_numbers.append(r)
z = x - x
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
    return sympy.expand(result).evalf()
def color(y):
    if len(str(y)) == 1:
        x_2 = zero + zero + str(y)
        return str(x_2)
    elif len(str(y)) == 2:
        x_3 = zero + str(y)
        return str(x_3)
    else:
        return y
```

```
37 def total(d,y,z):
38     total_1 = str(d) + str(y) + str(z)
39     return total_1
40 set1=[]
41 for y in range(0, int(height)):
42     for h in range (0, int(width)):
43         r, g, b = rgb_im.getpixel((h, y))
44         initial = total(str(color(r)), str(color(g)), str(color(b)))
45         set1.append(float(initial))
46 print(random_numbers)
47 print(linterpolation(set1, random_numbers))
```