```
1 prior_p = 4/7
 2 prior_n = 3/7
4 l p big = 2/4
5 l_p_small = 2/4
6 l_p_red = 1/4
7 l_p_green = 0/4
8 l p blue = 3/4
10 l_n_big = 2/3
11 l_n_small = 1/3
12 l n red = 1/3
13 l_n_green = 1/3
14 l_n_blue = 1/3
16 # New point. Small and Blue
17 post_p = prior_p*(l_p_small + l_p_blue)
18 post_n = prior_n*(l_n_small + l_n_blue)
20 print("P posterior:",post_p)
21 print("N posterior:",post_n)
    P posterior: 0.7142857142857142
    N posterior: 0.2857142857142857
 1 total = post_p + post_n
 2 prob_p = post_p/total
 3 prob_n = post_n/total
 5 print("P probability:",prob_p)
 6 print("N probability:",prob_n)
    P probability: 0.7142857142857143
    N probability: 0.28571428571428575
```

The output class is most likely to be P based on the normalized probability.

✓ 0s completed at 9:22 PM