Iteration 3: Agent took the action left and Observed green.

 $b_2 = \left[\frac{870587}{1848350}, \frac{289}{924175}, \frac{62577}{132025}, \frac{8466}{924175}, \frac{3071}{184835}, \frac{10693}{369670} \right]$

New selif wray rafter the Iteration 3 re &

b3(81) = 0.15 (0.83 + b2(61) + 0.83 b2(32))

73934007

b3(5,) = 0.9(0.17 x b2(61) + 0.83 x b2(53))

= 781630077 1848350000

b3(83) = 0.15(0.17 x b2(52) + 0.83 x b2(54))

= 2/22773

1848350000

 $b_{g}(S_{4}) = 0.9 (0.17 \times b_{2}(S_{3}) + 0.83 \times b_{2}(S_{5}))$

= 9811269

1155 21875

b3(ss) = 0.9 (0.17 x b2(s4) + 0.83 x b2(s6))

18 48 350000

b3(S6) = 0.15 (0.17 x b2 (S5) + + 3 0.17 x b2 (S6))

= <u>24531</u> 21124000

$$S = \sum_{i} b_3(s_i) = \frac{109986861}{184835000}$$

Calculating normalized probabilities