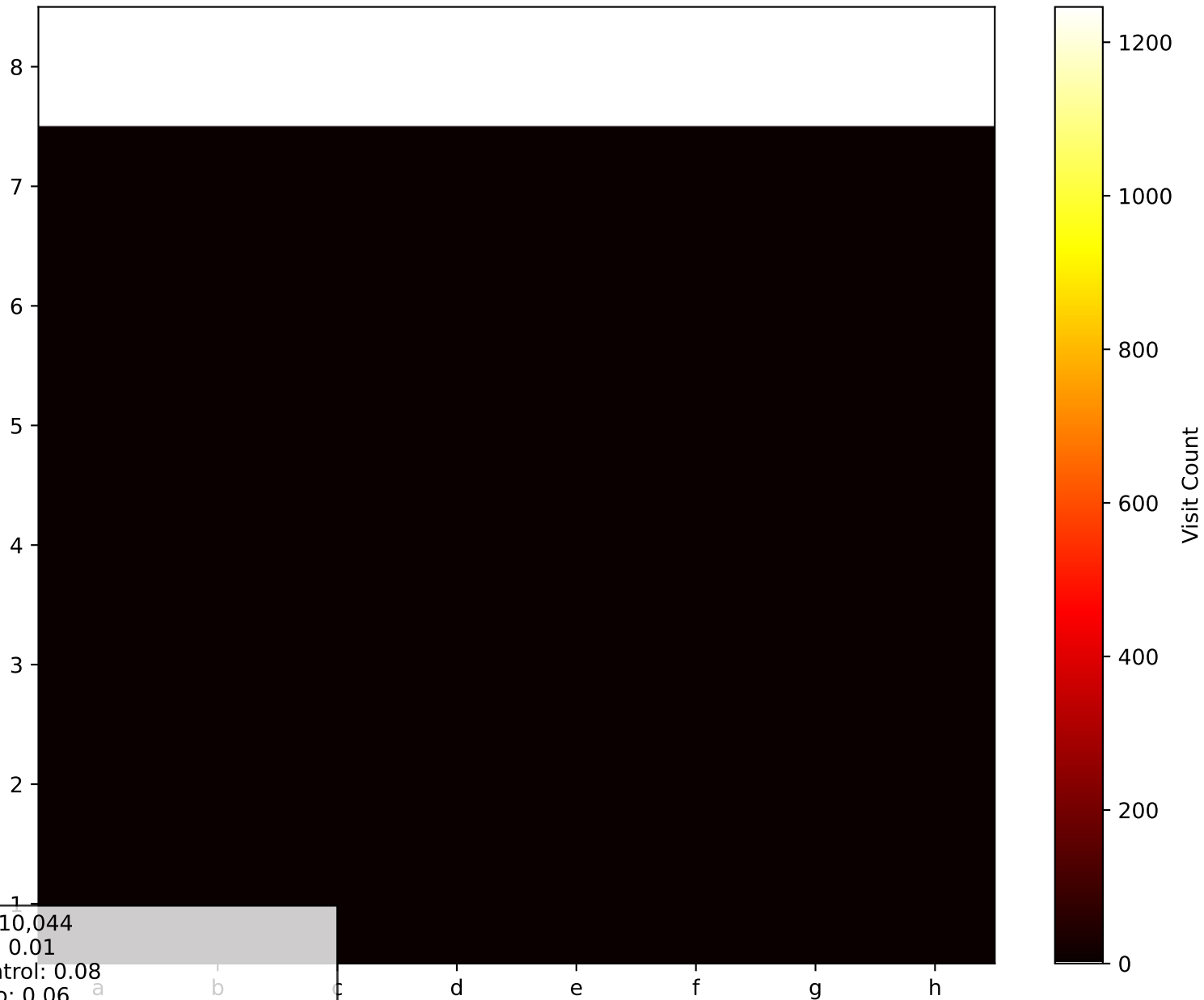
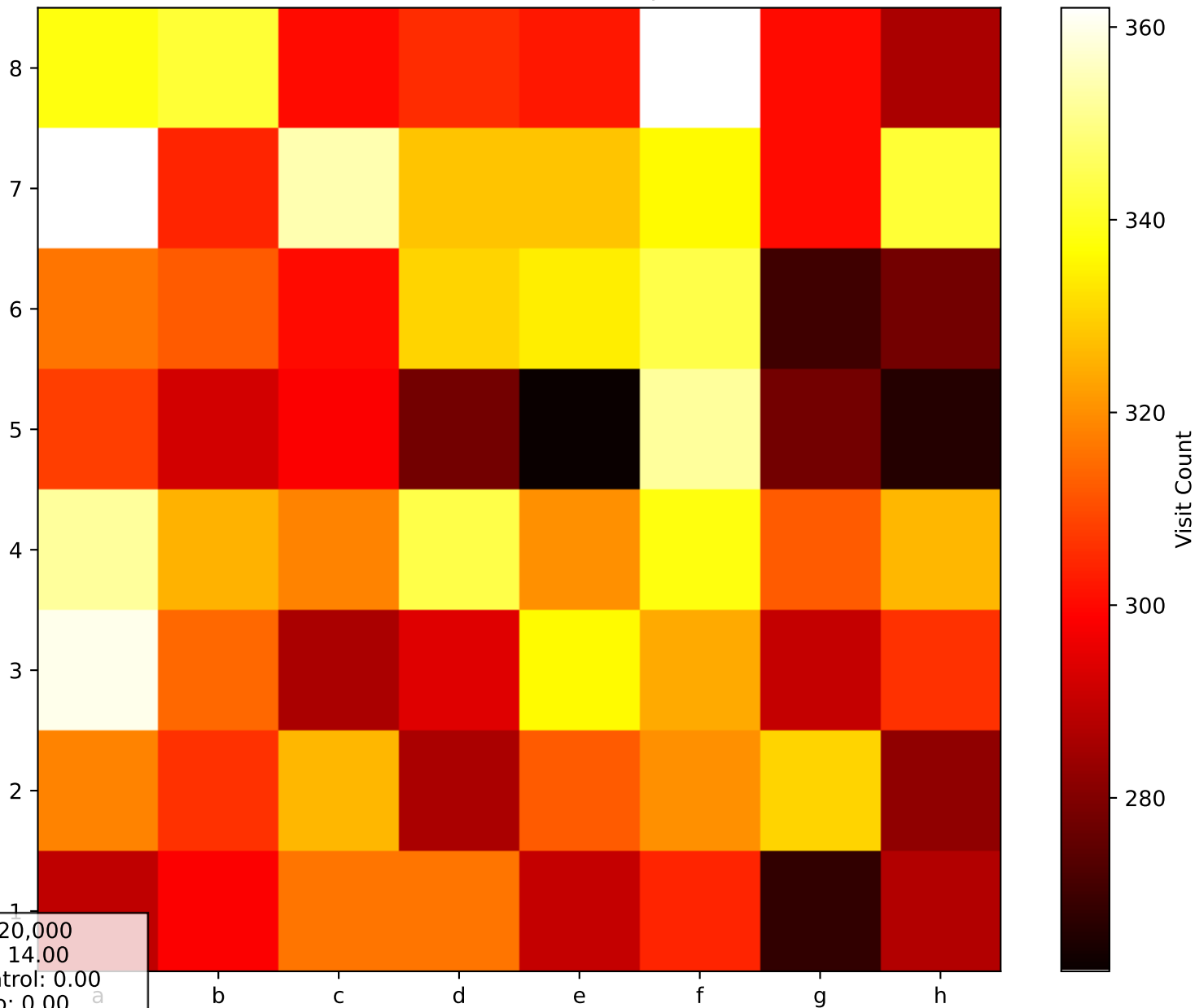


Pawn Control Heatmap

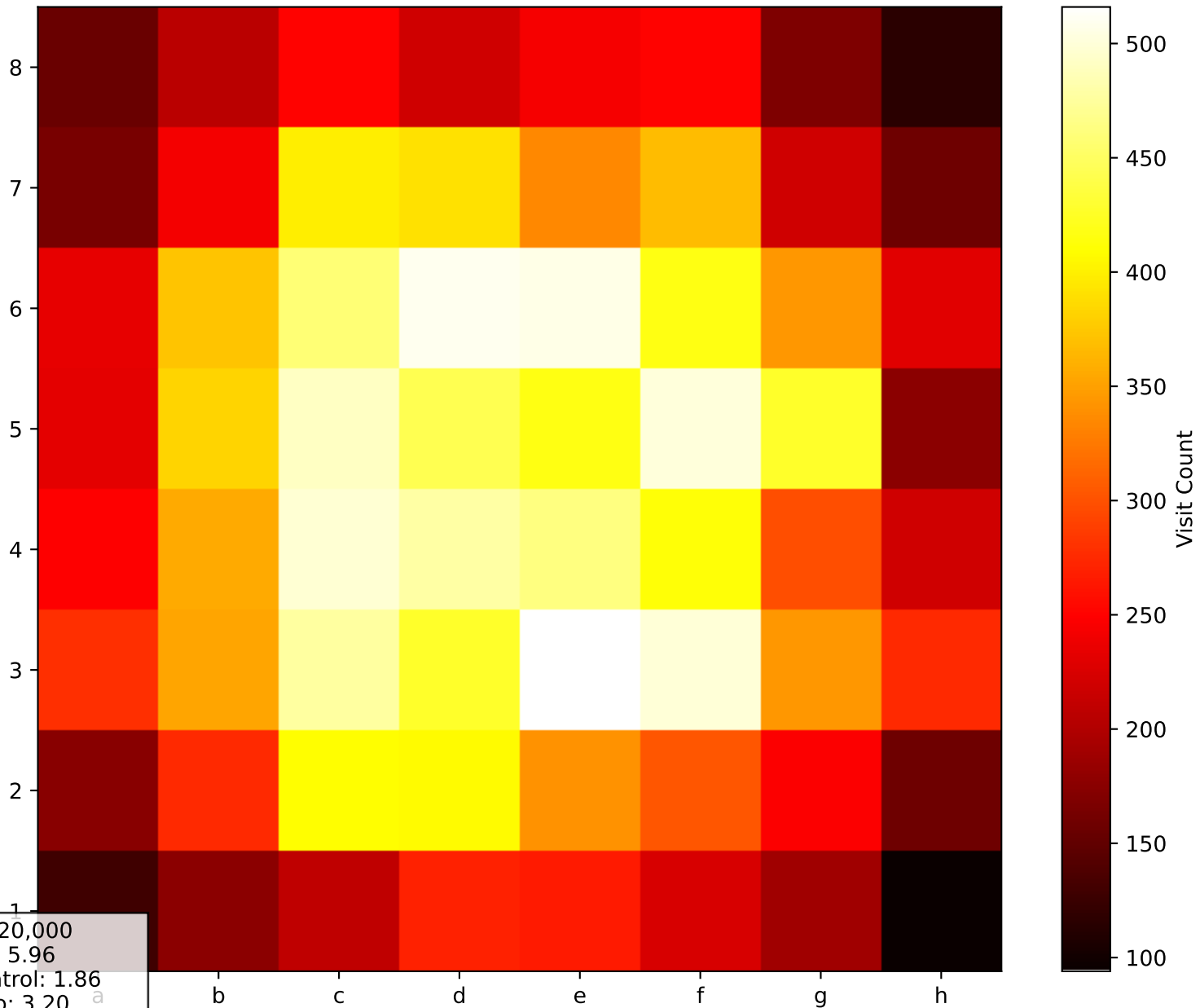


# Rook Control Heatmap



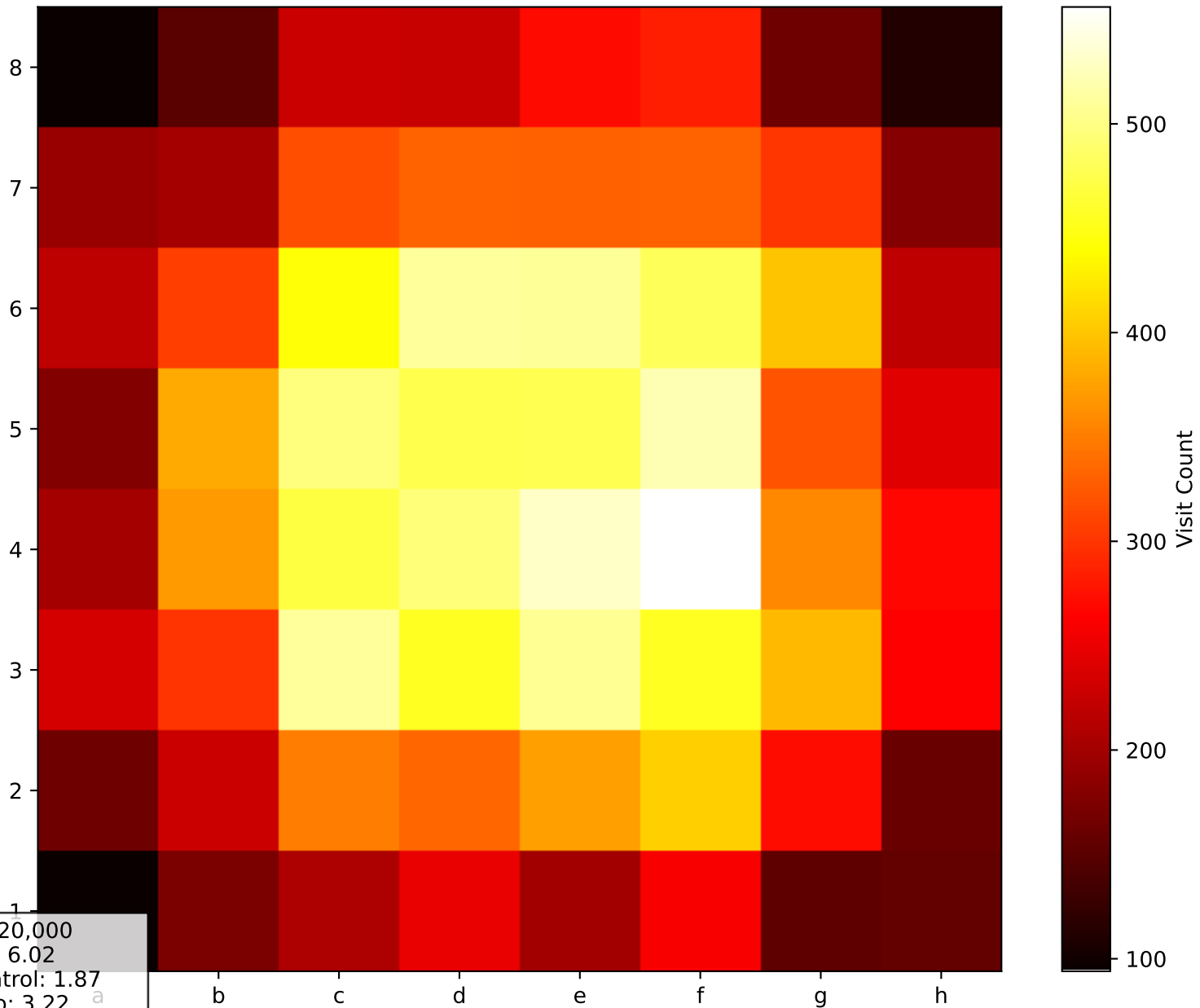
Total Visits: 20,000  
 Avg Control: 14.00  
 Std Dev Control: 0.00  
 Sharpe Ratio: 0.00  
 Board Coverage: 100.0%  
 Most Visited: f8 (362)  
 Least Visited: e5 (262)

# White Knight Control Heatmap



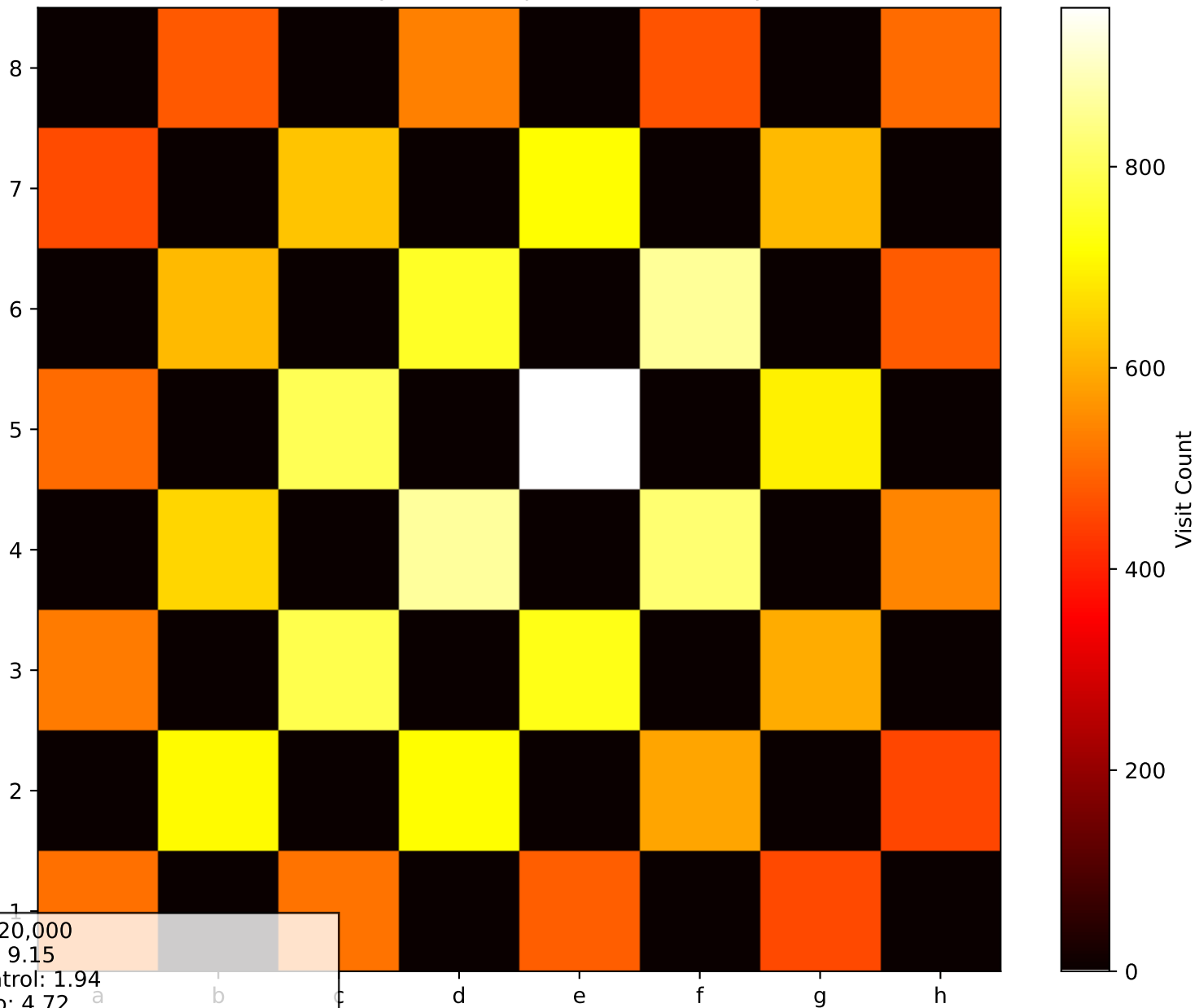
Total Visits: 20,000  
 Avg Control: 5.96  
 Std Dev Control: 1.86  
 Sharpe Ratio: 3.20  
 Board Coverage: 100.0%  
 Most Visited: e3 (516)  
 Least Visited: h1 (94)

# Black Knight Control Heatmap



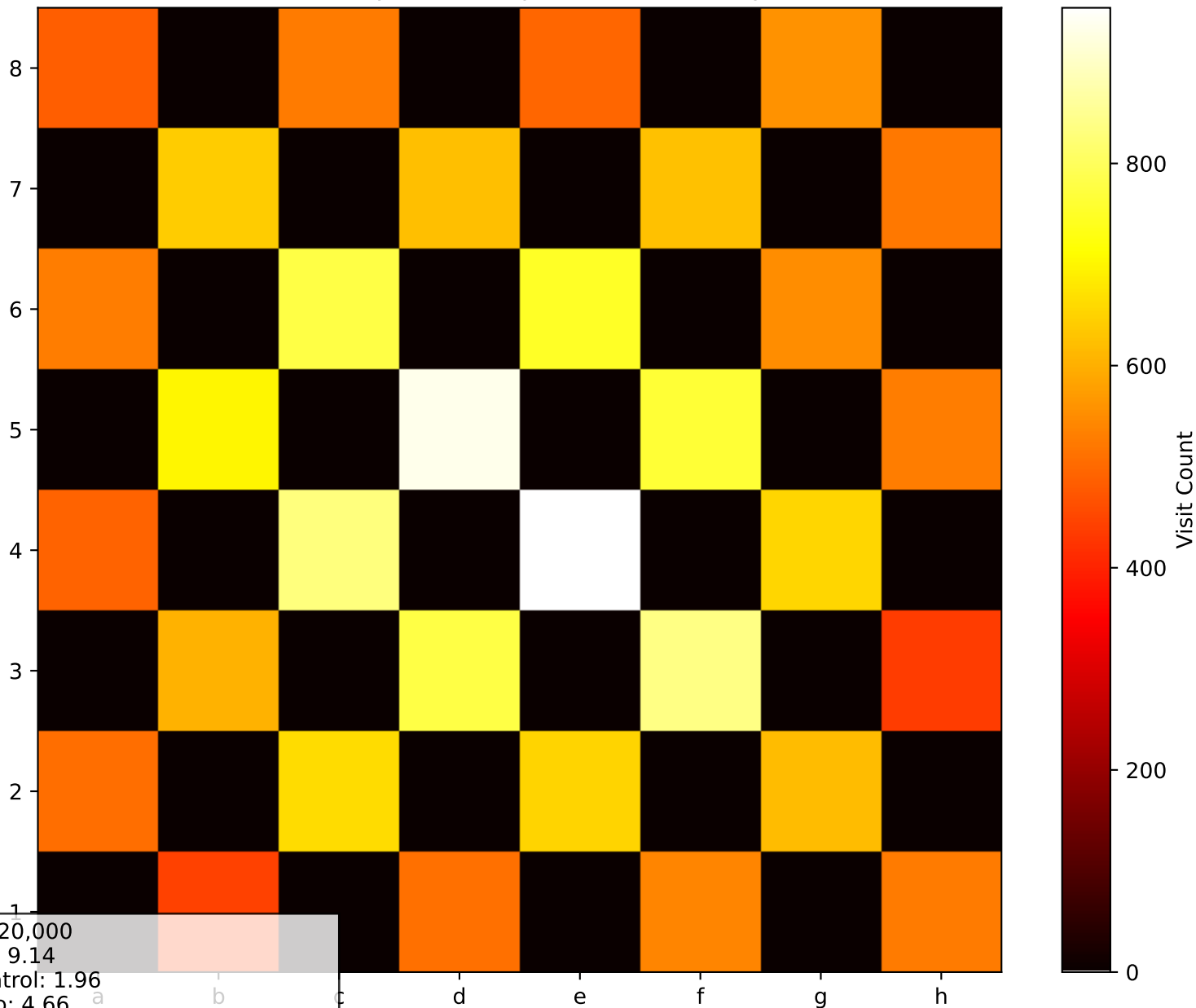
Total Visits: 20,000  
 Avg Control: 6.02  
 Std Dev Control: 1.87  
 Sharpe Ratio: 3.22  
 Board Coverage: 100.0%  
 Most Visited: f4 (556)  
 Least Visited: a8 (94)

# White Square Bishop Control Heatmap



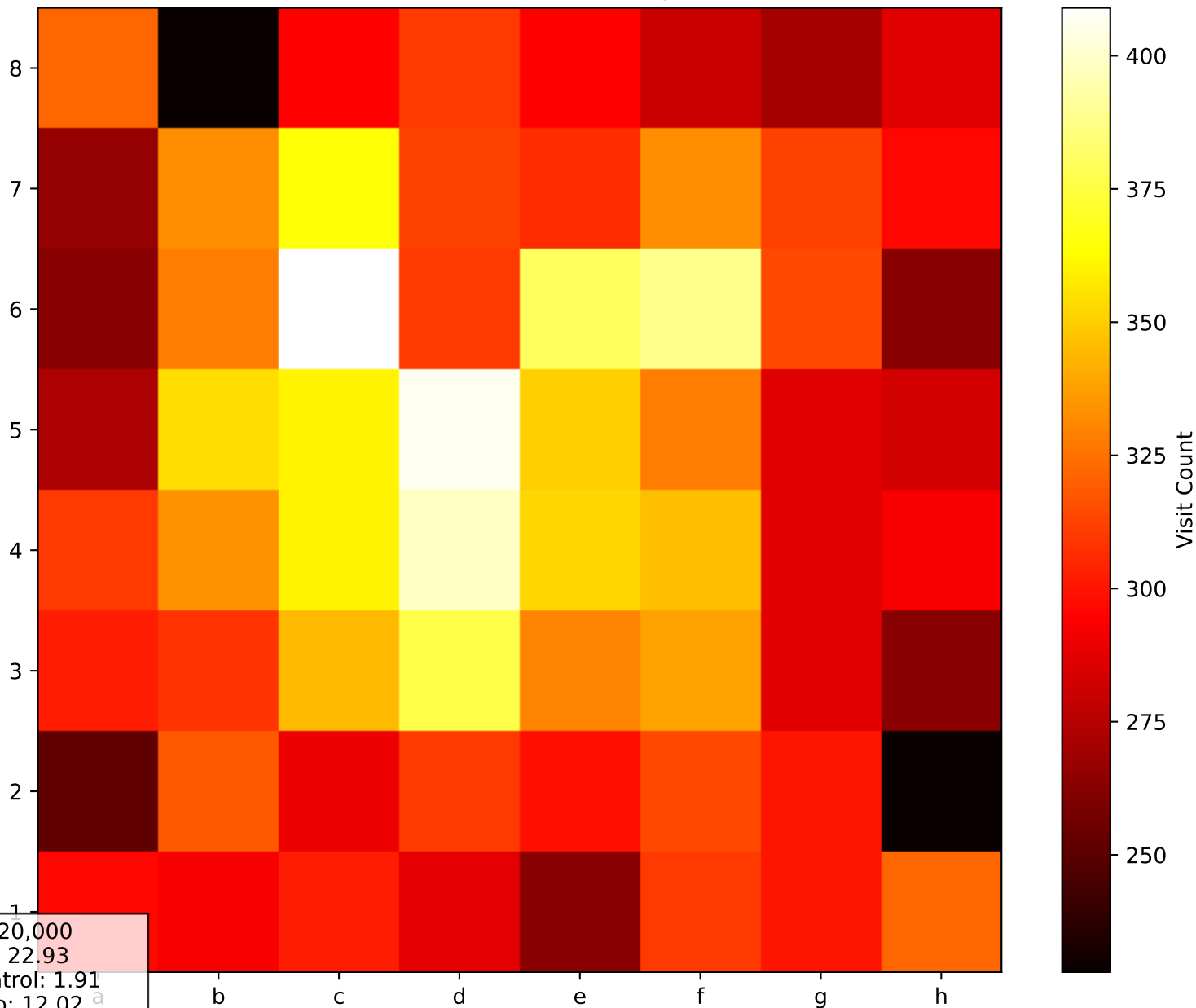
Total Visits: 20,000  
 Avg Control: 9.15  
 Std Dev Control: 1.94  
 Sharpe Ratio: 4.72  
 Board Coverage: 50.0%  
 Most Visited: e5 (958)  
 Least Visited: None (unvisited squares) (0)

# Black Square Bishop Control Heatmap



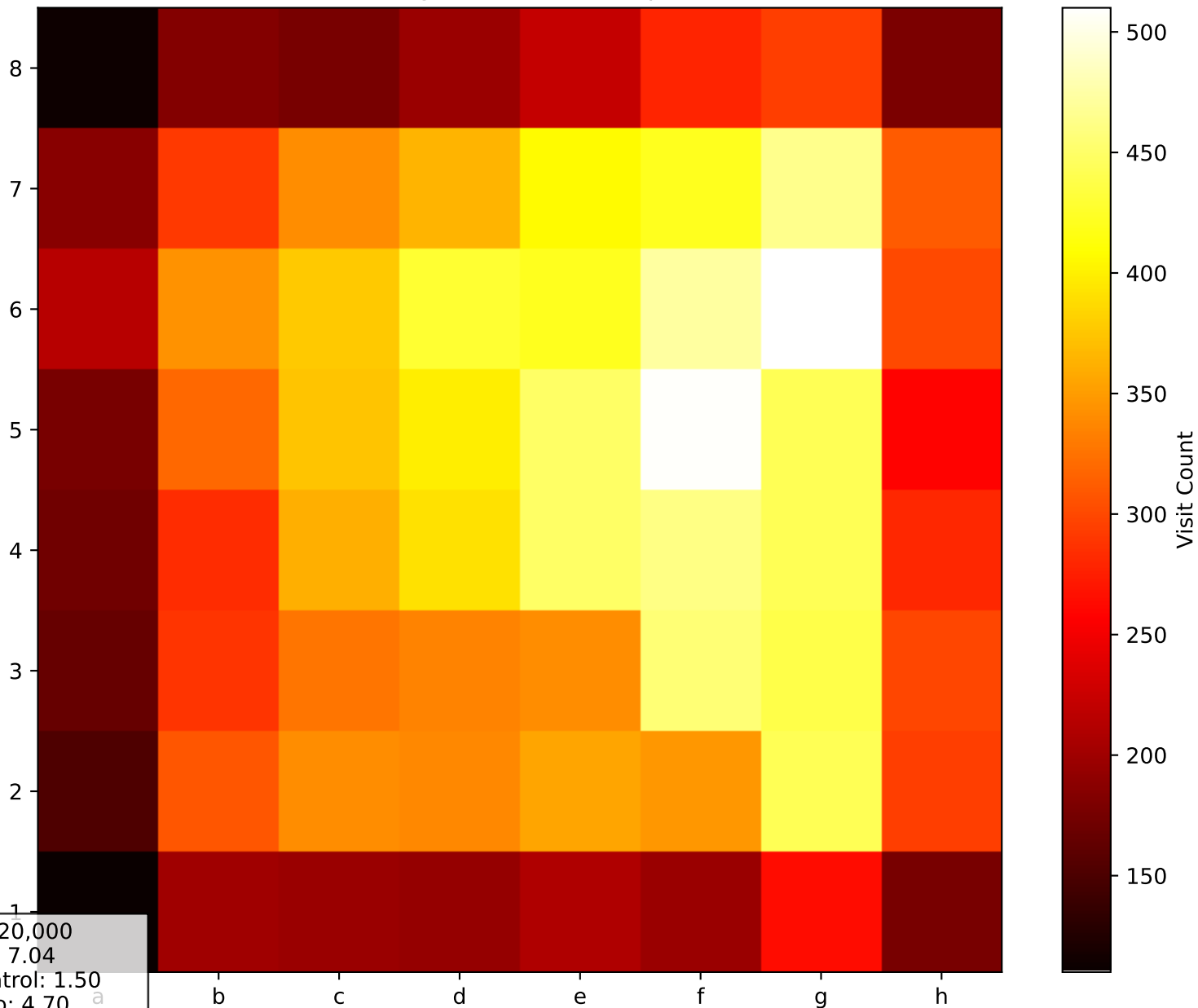
Total Visits: 20,000  
 Avg Control: 9.14  
 Std Dev Control: 1.96  
 Sharpe Ratio: 4.66  
 Board Coverage: 50.0%  
 Most Visited: e4 (954)  
 Least Visited: None (unvisited squares) (0)

# Queen Control Heatmap



Total Visits: 20,000  
 Avg Control: 22.93  
 Std Dev Control: 1.91  
 Sharpe Ratio: 12.02  
 Board Coverage: 100.0%  
 Most Visited: c6 (409)  
 Least Visited: b8 (228)

King Control Heatmap



Total Visits: 20,000  
Avg Control: 7.04  
Std Dev Control: 1.50  
Sharpe Ratio: 4.70  
Board Coverage: 100.0%  
Most Visited: g6 (510)  
Least Visited: a1 (110)



Optimal Portfolio Weights

