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COMP 251

Assignment 1 Conclusion

Collaborations both small and large: Frances Jenks, Jacob McConnell, Ege Odaci

Task 3:

From the below graph, Figure 1 [w values range from 10 to 20], it is displayed that as the Alpha increases the number of collisions increases at a linear rate. However, the Open Addressing has a much steeper slope of collisions vs. Alpha compared to Chain-insertion.

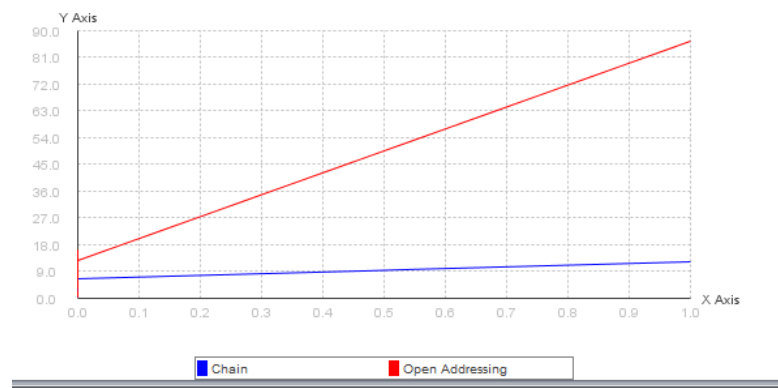


Figure 1

Figure 2 [w values ranging from 5 to 15] shows that with w values too small, the linear relationship shown by the graph above begins to fall apart once alpha values exceed 1. The collisions spike in Open Addressing at 2, then proceed to fall again afterwards, while chain-insertion sees no such spike in collision. Both Figures remained consistent with minor alteration, after 5 tests with each figure's W values.

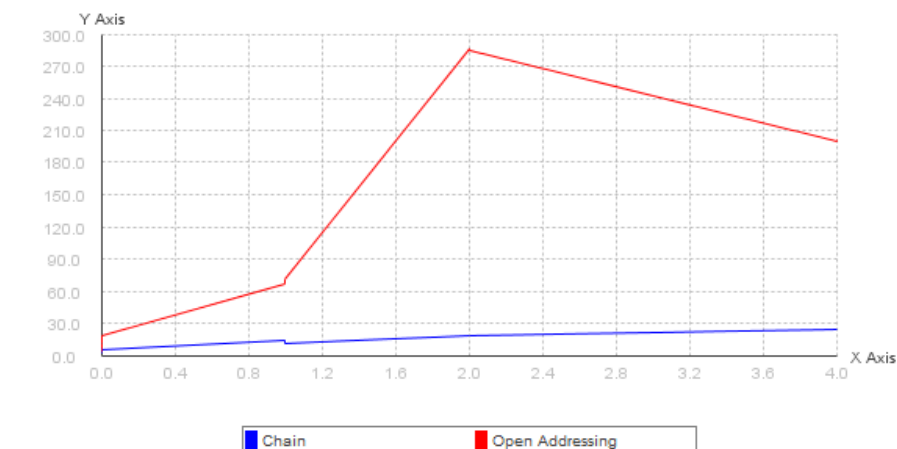


Figure 2