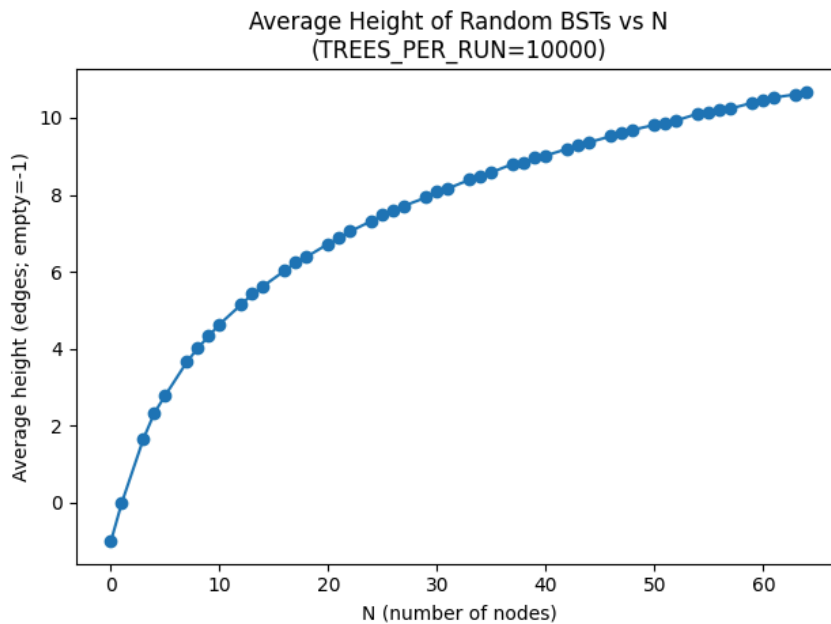
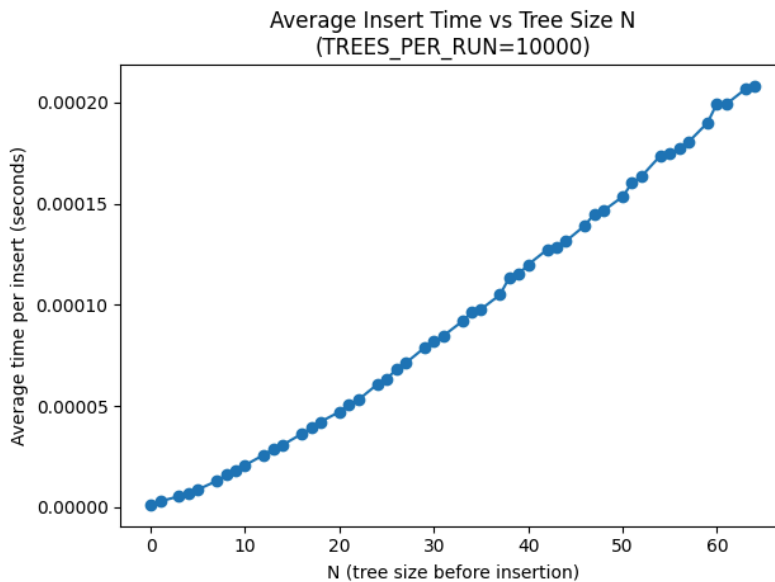


n_max = 64



The curve is following a $O(\log n)$ pattern, which was expected. The x-axis represents the number of nodes in a given tree compared against the y-axis which is the average height of a given tree. As the number of nodes increases, the average height of the trees slowly increases following a logn pattern.



This curve is more linear, which was not expected. The curve should represent an $O(\log n)$ growth pattern, but since the sample size of data is smaller, we are only seeing the beginning of it, which makes it look linear. If we went up to a larger value N, we would observe a $\log(n)$ running time pattern.