

# Exercice 2 report

Alexander Delsanto

## 1 Report

This brief summary presents the results obtained from the tests conducted on the algorithm implemented in Exercise 2.

To carry out these tests, the algorithm has been executed with different a `max_height` parameter. The scatterplot in Figure 1 shows the time needed for the execution versus the value of `max_height`. Values of `max_height` lower than 5 are not shows because the tests that took longer than ten minutes were discarded.

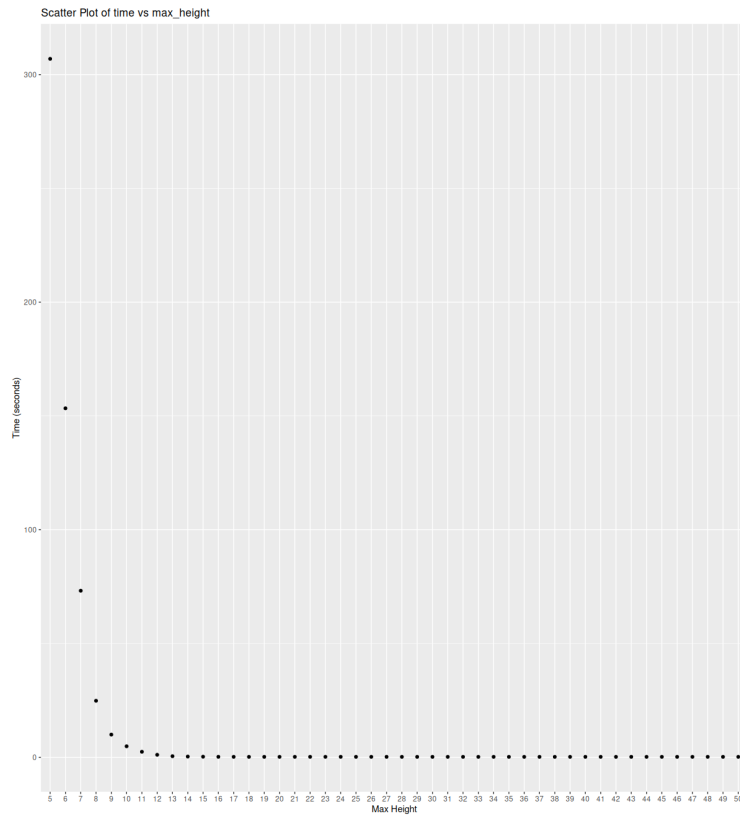


Figure 1: Scatterplot showing the results obtained in the tests

Upon analyzing the trends in the plot, it is possible to notice that the best times are achieved for values of  $\text{max\_height} \geq 13$ . With lower values the algorithm's behaviour is more similar to that of a normal linked list and is therefore much slower. That is because it will have much fewer express lanes to move faster through the list.