Exercise 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 algotihm 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 minuted were discarded.
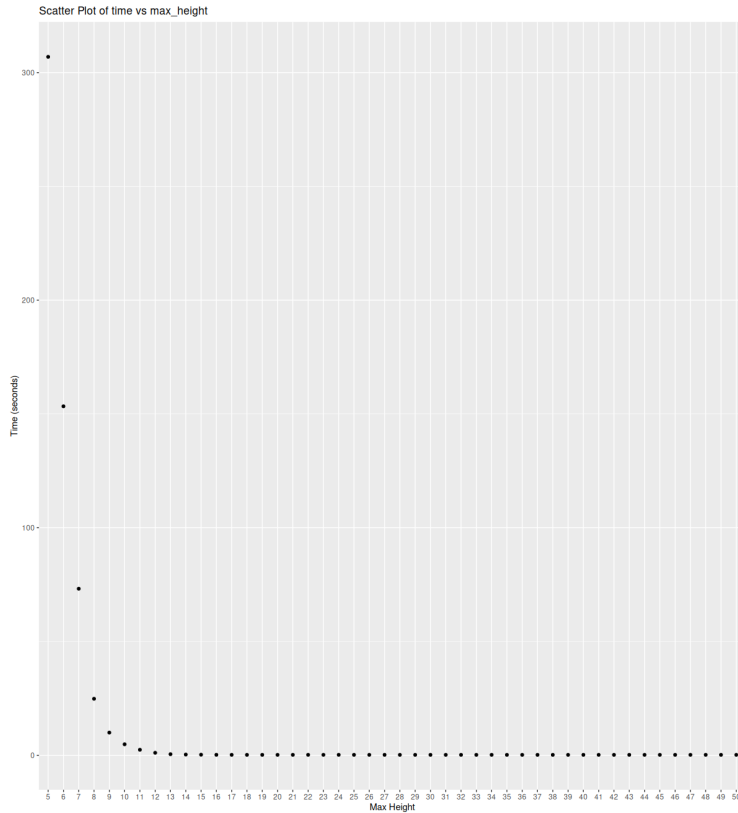

Figure 1: Scatterplot showing the results obtained in the tests

Upon analyzing the trends in the plot, it is possible to notice that the best times are achieved for values of max_height ≥ 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.