Assignment 4, TDT4136

Silje Anfindsen

**Screenshots from terminal after running each of the four boards.**

Including for each board:

* Solution
* number of times BACKTRACK function was called
* number of times BACKTRACK function returned failure for each board

A close up of a keyboard

Description automatically generated

A close up of a keyboard

Description automatically generated

A close up of a keyboard

Description automatically generated

A picture containing calendar

Description automatically generated

**Comments on the results for each board:**

First, I noticed that the algorithm uses remarkable more time for the difficult boards compared to easy and medium. Another observations is the ratio between number of times BACKTRACK is called and failed. The ratio is higher for the more difficult boards indicating that the algorithm performs worse for difficult constraint satisfaction problems.

This can be due to for example the lack of a heuristic function, for example the leastconstraining value, when we decide the order of domain values chosen in the BACKTRACK function. Maybe this would have improved especially total number of failures of the BACKTRACK function.