Tutorial - Week 5

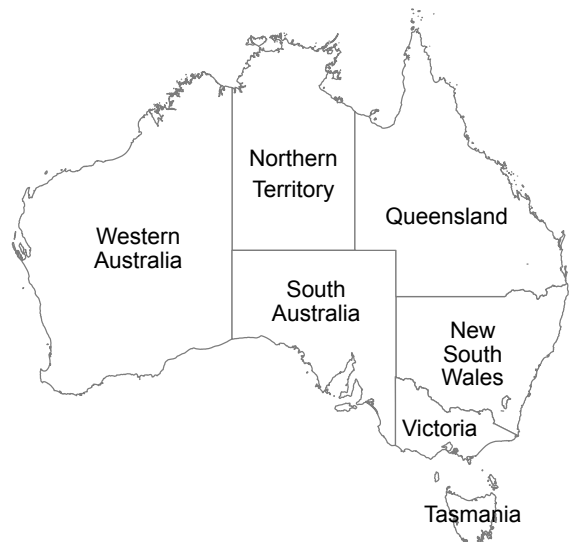## CSP & Local Search

Activity 1.

Solve the famous Cryptarithmetic puzzle:

$$
\begin{array}{r}
\text{S E N D} + \\
\text{M O R E} \\
\hline
\text{M O N E Y}
\end{array}
$$

What heuristics and strategies did you use along the way?

Activity 2

Use Forward Checking to show that the Australia map-colouring problem has no solution when we assign WA=green, V=Red, NT=Red.

Activity 3

1) What is the heuristic value for this N-queens problem, using "number of conflicts".

2) Search for a solution using Hill-Climbing Algorithm, starting with Q1.