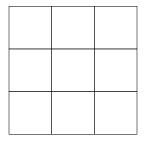
Design and Analysis of Algorithms — Lab

R S Milton Department of CSE, SSN College of Engineering

Session 9: Backtracking

Magic Square 4 March 2020

Problem: Fill the 9 cells of the 3×3 square shown below with numbers 1 to 9 such that sum of the numbers in each row, or each column, or each of two diagonals, is the same.



- 1. Use backtracking to do exhaustive search for the answer in the state space of the problem.
- 2. Use pruning to speed up the search for the answer.