Graphs & Games

EECS 477 Lecture 17, 11/12/2002



























Eight queens problem

- No threatening
- Solutions:
 - C(64,8) approx. 4 billions
 - Vector of 8 numbers 8⁸ approx 16 millions
 - Permutations 8! = 40,320
 - Backtracking
 - DFS: tree of k-promising vectors (size 2057)
 - One queen at a time
 - Check right away only the lastly added queen

