

SSN College of Engineering
Department of Computer Science and Engineering

CS1504—Artificial Intelligence

Local search algorithm

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1. Solve 8-queens problem. Place 8 queens in a chessboard so that no queen is under attack from any other queen. One such “safe” configuration of 8 queens is shown below.

	1	2	3	4	5	6	7	8
1				Q				
2						Q		
3								Q
4		Q						
5							Q	
6	Q							
7			Q					
8					Q			

Implement Hill climbing algorithm to find any one safe configuration.