

CS1504—Artificial Intelligence

Session -05 Genetic algorithm

September 15, 2020

Solve 8-queen's 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.

State: Position of 8 queens

Population: K randomly generated states

Fitness function: Non- attacking pairs in 8-queens

Implement Genetic algorithm to find any one safe configuration.

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