

Queen attack rules

Everywhere marked bad is under attack

Everywhere not marked is safe

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

Same row: trivial

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

Same column: trivial

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

Same diagonal, ascending: ???

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

Same diagonal, descending: ???

For a 4x4 board, a solution is easy to find:

	1	2	3	4
4			Q_3	
3	Q_1			
2				Q_4
1		Q_2		