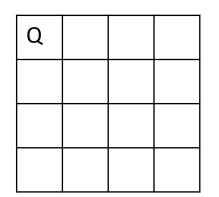
Quiz_1

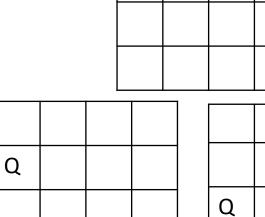
Instructor: Ayesha Enayet

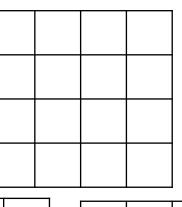
4-Queens Quiz

Col-by-Col, row selection order

h=4-c, where c is number queens in non-attacking positions



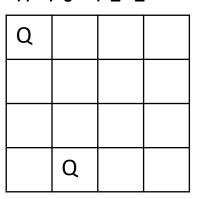


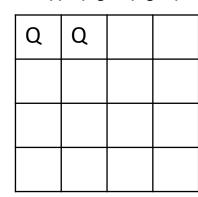


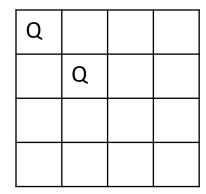
Q

2	
2	

Q		
	Q	



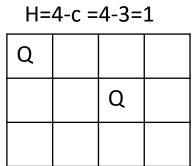




Q		
	Q	



Q		
	Q	



Q



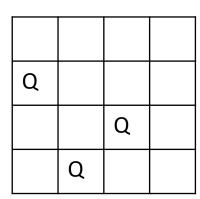
3	
3	
3	
4	
4	

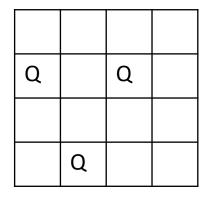
1	
3	
3	
4	
4	
1	

Q

H=4-c =4-2=2

		Q	
Q			
	Q		





		Q	
Q			
	Q		

Q Q Q Q Q

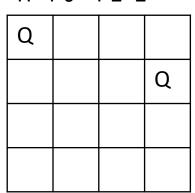
4-Queens

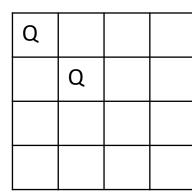
Alternate row-by-row, column selection order

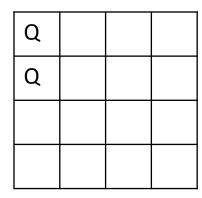
2

H=4-c =4-1=3

11-4 6 -4 2-2				
Q				
		Q		







Q		
	Q	



Q		
		Q

H=4-c =4-3=1			
Q			
			Q
	Q		



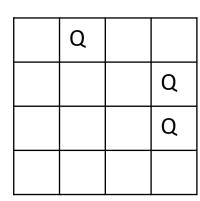
3	
3	
3	
4	
4	

1
3
3
4
4
4
4

Q	
	Q

	Q	
		Q
q		

H=4-c=4-3=1

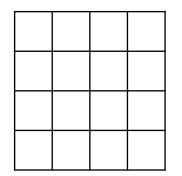


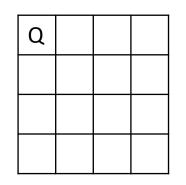
	Q		
			Q
		Q	

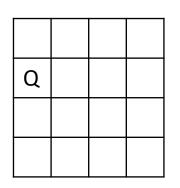
Q	
	Q
Q	

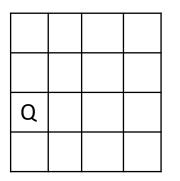
	Q	
		Q
Q		

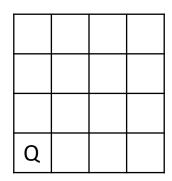
Goal State



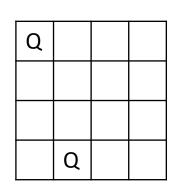


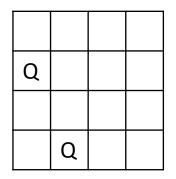






Q		
	Q	





	Q	
Q		

		Q	
Ī			
	Q		

	Q	
Q		

QQQ	Q	Q Q	Q	Q	Q Q
	Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Q Q Q	Q Q Q Q	
		Q Q Q Q Q Q			

Answer: BFS: 16 States Answer: DFS?