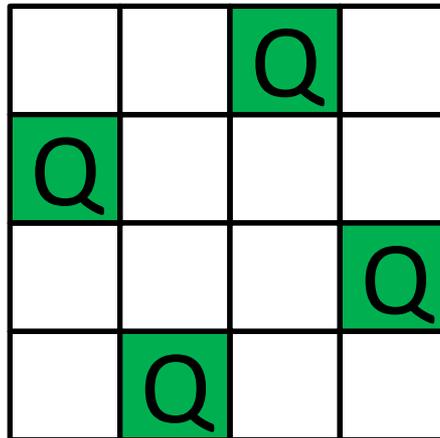




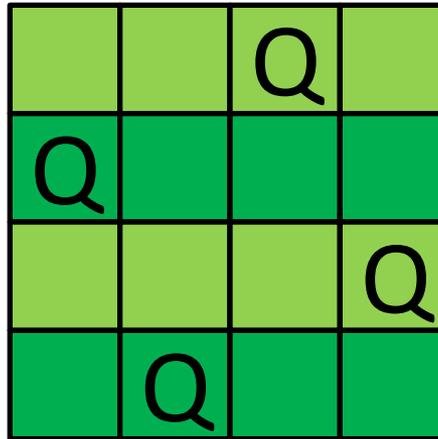
N Queens Problem





N Queens Problem

No more than one queen per line





N Queens Problem

No more than one queen per column

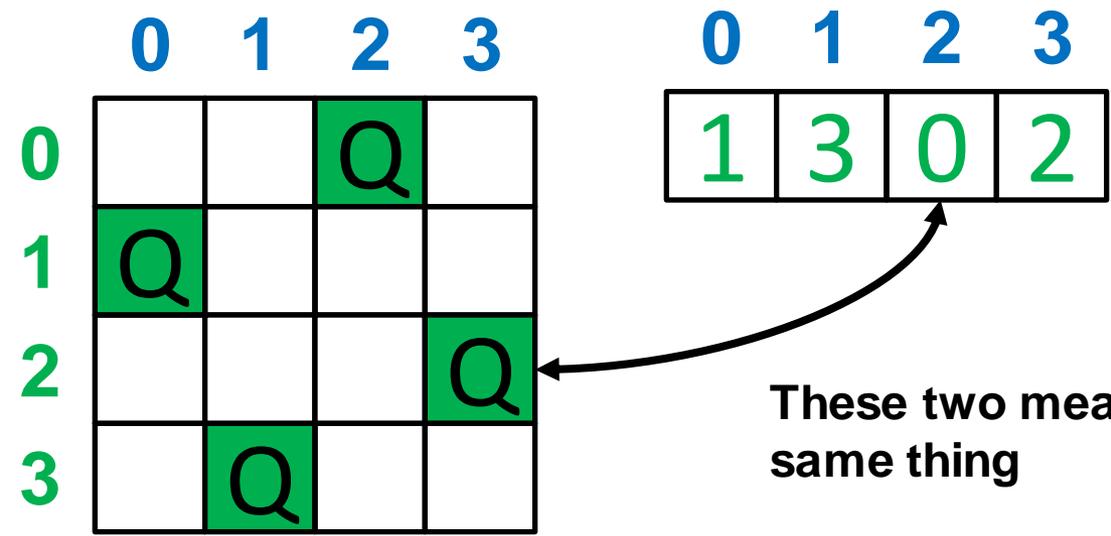
		Q	
Q			
			Q
	Q		

N Queens Problem

No more than one queen per diagonals

		Q	
Q			
			Q
	Q		

N Queens Problem



These two mean the same thing



N Queens Problem - Solution

	0	1	2	3
0	Q			
1				
2				
3				

0	1	2	3
0			



N Queens Problem - Solution

	0	1	2	3
0	Q	Q		
1				
2				
3				

0	1	2	3
0	0		

Line conflict



N Queens Problem - Solution

	0	1	2	3
0	Q			
1		Q		
2				
3				

0	1	2	3
0	1		

Diagonal conflict



N Queens Problem - Solution

	0	1	2	3
0	Q			
1				
2		Q		
3				

0	1	2	3
0	2		

OK.

And so on...



N Queens Problem – Parallel Solution

0 1 2 3

0			
---	--	--	--

1			
---	--	--	--

2			
---	--	--	--

3			
---	--	--	--

N Queens Problem – Parallel Solution

0	1	2	3	
0	0			X
0	1			X
0	2			
0	3			

0	1	2	3	
1	0			X
1	1			X
1	2			X
1	3			

And so on...

0	1	2	3	
2	0			
2	1			X
2	2			X
2	3			X

0	1	2	3	
3	0			
3	1			
3	2			X
3	3			X