

資料結構 Bonus 3

運管 15

111701031 黃浚瑀

執行後畫面：

一、Solve the n-Queen problem

The application window 'Form1' displays the n-Queen problem solver interface. It features a text input field for 'n' with the value '4', and two buttons: 'Solve the n-queen problem' and 'Solve and show in grid'. The output is shown in a multi-tabbed text area with tabs 'Queen's position', 'Queens in chess', and 'Queen in grid'.

Top Screenshot:

Queen's position Queens in chess Queen in grid

```
2 4 1 3 [1]
3 1 4 2 [2]
# Solutions=2 for the 4-Queen problem
```

Bottom Screenshot:

Queen's position Queens in chess Queen in grid

```
-----solutions 1-----
* Q * *
* * * Q
Q * * *
* * Q *
-----solutions 2-----
* * Q *
Q * * *
* * * Q
* Q * *
```

二、Solve and show in grid

Form1

Queen's position Queens in chess Queen in grid

n = 4

Solve the n-queen problem

Solve and show in grid

	1	2	3	4
▶ 1		Q		
2				Q
3	Q			
• 4			Q	

4-Queen

Solutions:#1

確定

Form1

Queen's position Queens in chess Queen in grid

n = 4

Solve the n-queen problem

Solve and show in grid

	1	2	3	4
▶ 1			Q	
2	Q			
3				Q
• 4		Q		

4-Queen

Solutions:#2

確定