

## Exercise 10. Answer Sheet

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**Problem 1.** (40 points) Consider a 4-queens problem: On a 4x4 chess board put 4 queens in such way that they don't attack each other.

- a) (20 points) How many solutions are there? **Put your answer here. 2 pattern**
- b) (20 points) Draw your solutions using 4x4 table and put Q at the queen positions.

Q			
		Q	
	Q		

	Q		
			Q
Q			

**Problem 2.** (60 points) Write a program implementing the 8-queens problem. Upload your code. Using your program answer the following questions?

- a) (30 points) How many solutions are there? **Put your answer here. 4 pattern**
- b) (30 points) Draw one of the solutions in the table below.

Q							
		Q					
				Q			
						Q	
	Q						
			Q				
					Q		

