## **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? There are 2 solutions for the problem
- b) (20 points) Draw your solutions using 4x4 table and put Q at the queen positions.





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

To compile and run the file, run the following cammand lines: g++ -std=c++11 -o eightQueensProb eightQueensProb.cpp ./eightQueensProb

To change the number of queens, change the value of N in the implementation code.

For example, with 8 queens the output will be:



a) (30 points) How many solutions are there?

## There are 92 solutions

b) (30 points) Draw one of the solutions in the table below.

