**Algorithm for 8 Queen Problem.**

**What is 8 queen problem:**

* The **eight queens puzzle** is the problem of placing eight chess queens on an 8×8 chessboard so that no two queens attack each other.
* Thus, a solution requires that no two queens share the same row, column, or diagonal.
* The eight queens puzzle is an example of the more general ***n*-queens problem** of placing *n* queens on an *n*×*n* chessboard, where solutions exist for all natural numbers *n* with the exception of *1, 2 and 3.*

**EIGHT QUEEN PROBLEM: ALGORITHM :**

1. Place the first queen in the left upper corner of the table.
2. Save the attacked positions.
3. Move to the next queen (which can only be placed to the next line).
4. Search for a valid position. If there is one go to step 8.
5. There is not a valid position for the queen. Delete it (the x coordinate is 0).
6. Move to the previous queen.
7. Go to step 4.
8. Place it to the first valid position.
9. Save the attacked positions.
10. If the queen processed is the last stop otherwise go to step 3.