USER MANUAL

RULES AND BASICS:

User needs to place 'n' number of queens on a 'n'X'n' chess-board under these simple rules :
1. No more than one queen could be in any row/column.
2. No two queens could be in any diagonal.

There are basically three levels in this game:

LEVEL 1: number of queens ranges from 4 to 5.
LEVEL 2: number of queens ranges from 6 to 7.
LEVEL 3: number of queens ranges from 8 to 9.

There are also two modes of game :

1. CLASSIC MODE-
   This is a mode which favours the beginners. User can get used to this game especially for larger grids.
   User can take time as much as needed.

2. CHALLENGE MODE-
   User can take limited time only that depends on difficulty level. User also gets score in this mode depending on difficulty level & time taken by user. If user is not able to solve the problem in that limited time user gets 0 score. User can see that limited time in the right most corner denoted by "max time".
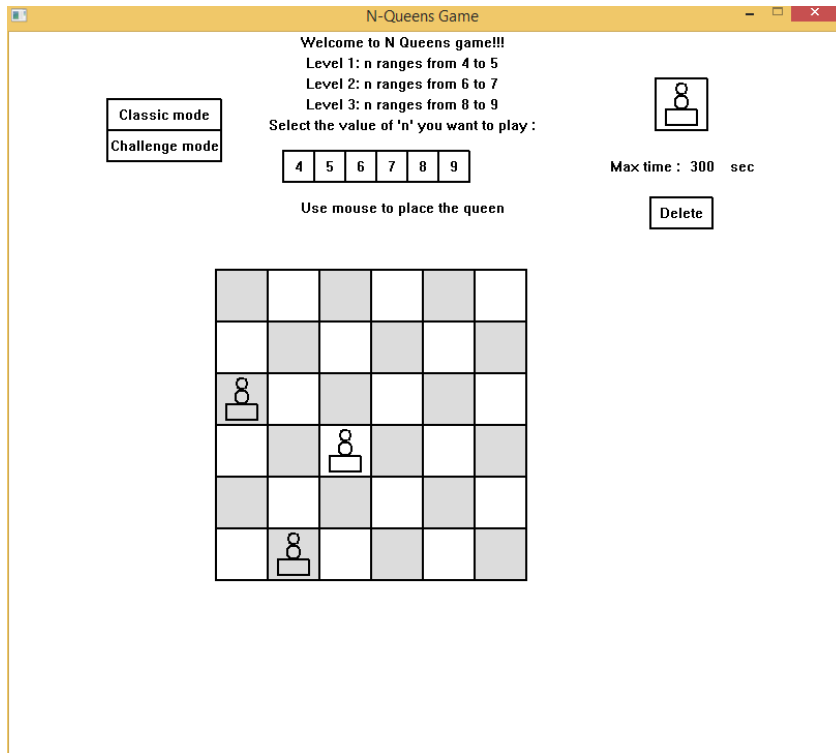
HOW TO START:

User should select the value of "n" first & then select the mode.

HOW TO FILL UP THE CHESSBOARD:
We can fill up the chess board by using the mouse according to these two steps:

1. Click on the queen symbol on right corner.

2. Click on the square where we want to place the queen.

HINTS AND TIPS:

1. Once the user clicks on queen he can't go back he has to place it somewhere

2. Once you click on delete button you can't go back & user can't delete queens more than "N-2" times.

Place the queens. Study the pattern.
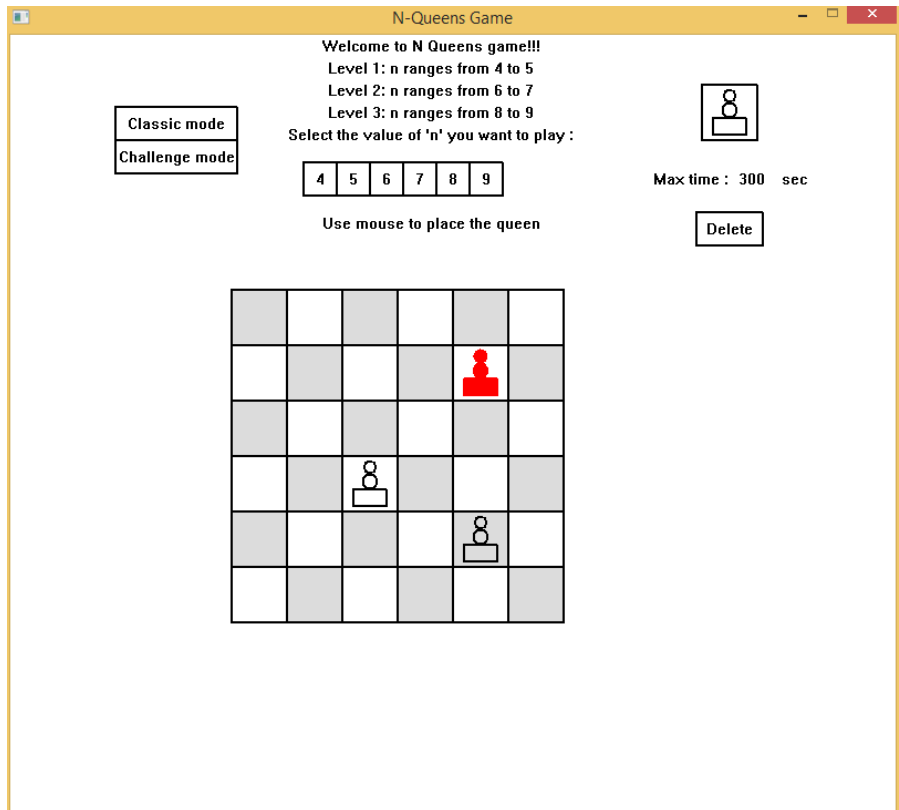
ABOUT SCORE:

User can see his score at the end of problem which depends on the difficulty of problem & time taken by user & how many time user used the DELETE feature . For a good score user need to complete harder problem in lesser time.

(This is shown only in CHALLENGE MODE)

HELP: If the user is not able to solve the square, then there will be an option available to him:

1. **<u>DELETE</u>**-By clicking on this and then on queen one can remove the queen from that place.
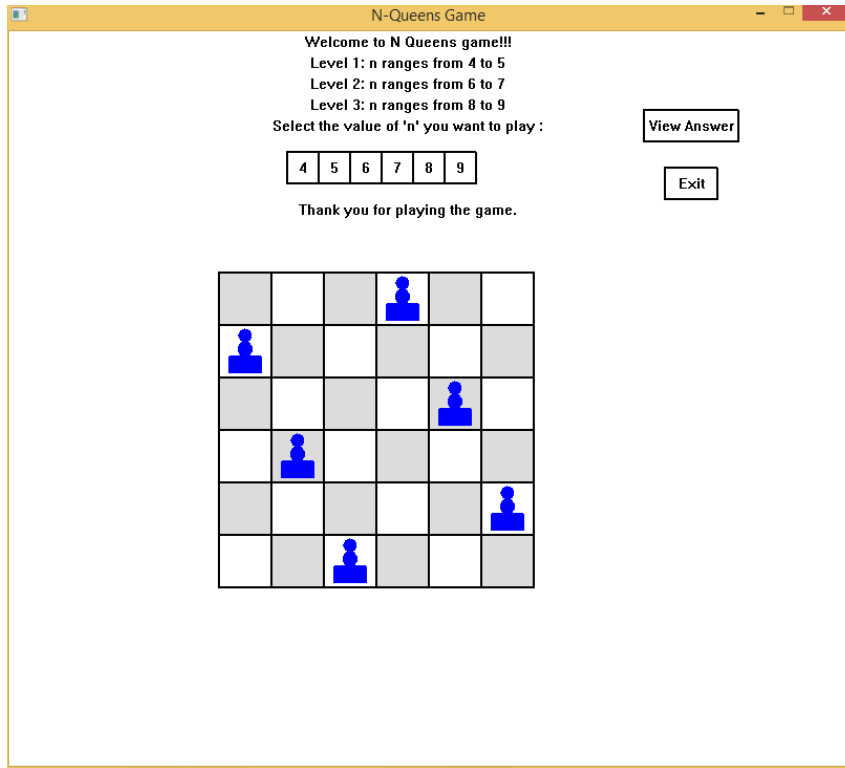
FEATURES:

1. Option to choose THREE DIFFICULTY LEVELS.
2. Option to choose two modes-
   CLASSIC AND CHALLENGE MODE

4. If user places the queen incorrectly that queen will be shown in red colour & that will be the end of the game.

5. When game is over user get two option :

1. VIEW ANSWER

   User can get answer at the end of game in which queens are in blue colour.

N-Queens Game

Welcome to N Queens game!!!
Level 1: n ranges from 4 to 5
Level 2: n ranges from 6 to 7
Level 3: n ranges from 8 to 9
Select the value of 'n' you want to play :

| 4 | 5 | 6 | 7 | 8 | 9 |

Thank you for playing the game.

View Answer

Exit

2. EXIT