**The 4 queens problem**

The 4 queen problem in which you are tasked to place 4 queens in 4\*4 chessboard in such way-

1. No two queens can be in same row.

2. No two queens can be in same column.

3. No two queens can be on diagonal.

**Solution -:** There are two possible solution-

First-

|  |  |  |  |
| --- | --- | --- | --- |
|  | Q1 |  |  |
|  |  |  | Q2 |
| Q3 |  |  |  |
|  |  | Q4 |  |

* Queen 1: Row 1, Column 2 (1,2)
* Queen 2: Row 2, Column 4 (2,4)
* Queen 3: Row 3, Column 1 (3,1)
* Queen 4: Row 4, Column 3 (4,3)

Second –

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Q1 |  |
| Q2 |  |  |  |
|  |  |  | Q3 |
|  | Q4 |  |  |

* Queen 1: Row 1, Column 3 (1,3)
* Queen 2: Row 2, Column 1 (2,1)
* Queen 3: Row 3, Column 4 (3,4)
* Queen 4: Row 4, Column 2 (4,2)