Prepare > Algorithms > Implementation > Queen's Attack II You will be given a square chess board with one queen and a number of obstacles placed on it. Determine how many squares the queen can attack. A queen is standing on an chessboard. The chess board's rows are numbered from to , going from bottom to top. Its columns are numbered from to , going from left to right. Each square is referenced by a tuple, , describing the row, , and column, , where the square is located. Submissions The queen is standing at position . In a single move, she can attack any square in any of the eight directions (left, right, up, down, and the four diagonals). In the diagram below, the green circles denote all the cells the queen can attack from 8 Leaderboard 7 6 5 Discussions 3 2 2 3 4 5 6 Editoria There are obstacles on the chessboard, each preventing the queen from attacking any square beyond it on that path. For example, an obstacle at location in the diagram above prevents the queen from attacking cells , and 8 7 6 5 4 3 2 2 3 4 5 6

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C++11
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   44
    45
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    47
         int main() {
    48
             int n, k;
    49
             cin >> n >> k;
    50
    51
             int r_q, c_q;
    52
             cin >> r_q >> c_q;
    53
             vector<vector<int>> obstacles(k, vector<int>(2));
    54
    55
             for (int i = 0; i < k; i++) {
                  cin >> obstacles[i][0] >> obstacles[i][1];
    56
    57
    58
    59
             cout << queensAttack(n, k, r_q, c_q, obstacles) << er</pre>
    60
    61
             return 0;
    62
    63
                                                      Line: 7 Col: 1
                                              Run Code
                                                          Submit Code
Test against custom input
Compiler Message
                         Success
  Test case 1
                                                        Download
                        Input (stdin)
   Test case 2
                             4 0
  Test case 3
                             4 4
   Test case 4
               А
                                                        Download
                        Expected Output
                             9
   Test case 5

✓ Test case 6
```

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Given the queen's position and the locations of all the obstacles, find