```
#include <bits/stdc++.h>
using namespace std;
class NQP {
private:
    int n;
    vector<int> x;
public:
    NQP() {
         cout << "Enter length or width of chessboard\n";</pre>
         cin >> n;
        x.resize(n);
    }
    bool place(int k, int i) {
         for (int j = 0; j < k; j++) {
             if (x[j] == i \mid | abs(x[j] - i) == abs(j - k)) {
                 return false;
         }
         return true;
    }
    void NQueen(int k) {
         for (int i = 0; i < n; i++) {
             if (place(k, i)) {
                 x[k] = i; // Place the queen
if (k == (n - 1)) {
                      printArr(); // Print when all queens are placed
                      NQueen(k + 1); // Try to place queens in the next row
             }
         }
    }
    void printArr() {
         // Print the board in a clearer format
         for (int i = 0; i < n; i++) {
             for (int j = 0; j < n; j++) {
                 if (x[i] == j) {
   cout << "" "; // Mark the queen's position</pre>
                 } else {
                      cout << "_ "; // Empty spot</pre>
                 }
             }
             cout << endl;</pre>
         }
         cout << endl;</pre>
         for(int i=0;i<n;i++){</pre>
         cout<< "Row "<<i+1<<" & Column "<<(x[i]+1)<<endl;
         cout<<endl;
    }
};
int main() {
    NQP queen;
    queen.NQueen(0); // Start placing queens from row 0
    return 0;
}
Enter length or width of chessboard
```

*/