```
#include <stdbool.h>
#include <stdio.h>
#define N 4
void printSolution(int board[N][N])
    for (int i = 0; i < N; i++)
        for (int j = 0; j < N; j++)
            printf(" %d ",board[i][j]);
            printf("\n");
    }
}
bool isSafe(int board[N][N], int row, int col)
    int i, j;
    for (j = 0; j < col; j++)
        if (board[row][j])
            return false;
    for(i=0;i< row;i++)</pre>
          if(board[i][col])
          return false;
    for (i = row, j = col; i >= 0 && j >= 0; i--, j--)
        if (board[i][j])
            return false;
    for (i = row, j = col; i >= 0 && j < N; i--, j++)
        if (board[i][j])
            return false;
    return true;
}
bool NQueen(int board[N][N], int row)
{
    if (row == N)
        return true;
    for (int j = 0; j < N; j++) {
            if (isSafe(board, row, j)) {
            board[row][j] = 1;
            if (NQueen(board, row + 1))
                return true;
            board[row][j] = 0;
        }
    }
    return false;
int main()
     int board[N][N] = \{0\};
```

```
if (NQueen(board,0) == false) {
    printf("Solution does not exist");
    return 0;
}

printSolution(board);
return true;
return 0;
}
```