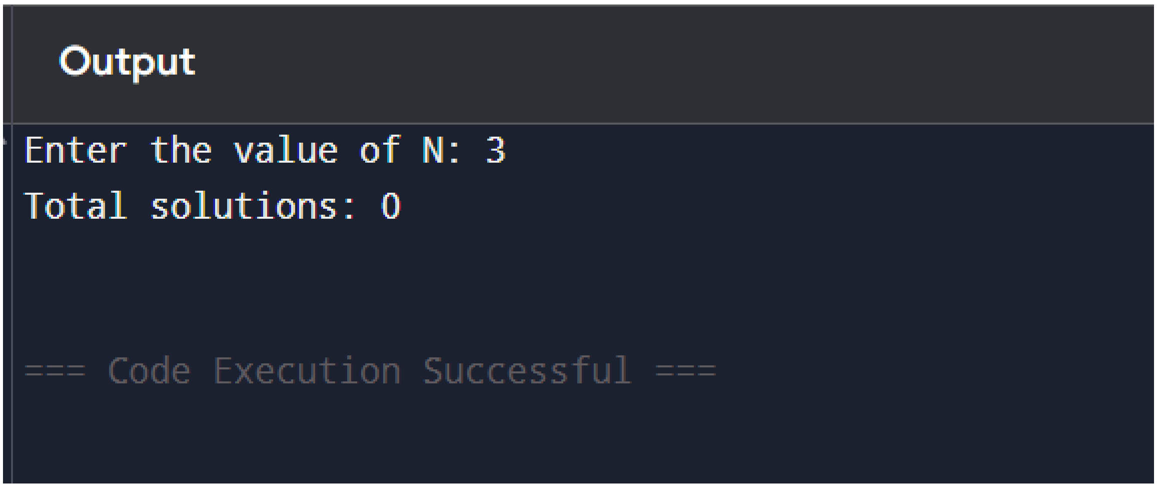
2.N-QUEENS

```
#include <stdio.h>

#include <stdlib.h>


int board[10], count = 0;


int place(int row, int col) {

    for (int i = 1; i < row; i++) {

        if (board[i] == col || abs(board[i] - col) == abs(i - row))

            return 0;

    }

    return 1;

}


void solve(int row, int n) {

    for (int col = 1; col <= n; col++) {

        if (place(row, col)) {

            board[row] = col;

            if (row == n) {

                count++;

                for (int i = 1; i <= n; i++)

                    printf("%d ", board[i]);

                printf("\n");

            } else {

                solve(row + 1, n);

            }

        }

    }

}


int main() {
    int n;

    printf("Enter the value of N: ");
    scanf("%d", &n);

    solve(1, n);

    printf("Total solutions: %d\n", count);

    return 0;
}
```



```
Enter the value of N: 3
Total solutions: 0


=== Code Execution Successful ===
```