

```
#include <stdio.h>
```

```
#define N 3 // Size of the square  
matrix
```

```
void rotateMatrix(int matrix[N]  
[N]) {
```

```
    // Transpose the matrix
```

```
    for (int i = 0; i < N; i++) {
```

```
        for (int j = i; j < N; j++) {
```

```
            int temp = matrix[i][j];
```

```
            matrix[i][j] = matrix[j][i];
```

```
            matrix[j][i] = temp;
```

```
        }
```

}

// Reverse each row

for (int i = 0; i < N; i++) {

for (int j = 0; j < N / 2; j++) {

int temp = matrix[i][j];

matrix[i][j] = matrix[i][N - j - 1];

matrix[i][N - j - 1] = temp;

}

}

}

```
void printMatrix(int matrix[N][N])  
{  
    for (int i = 0; i < N; i++) {  
        for (int j = 0; j < N; j++) {  
            printf("%d ", matrix[i][j]);  
        }  
        printf("\n");  
    }  
}
```

```
int main() {  
    int matrix[N][N] = {  
        {1, 2, 3},  
        {4, 5, 6},
```

{7, 8, 9}

};

printf("Original Matrix:\n");

printMatrix(matrix);

rotateMatrix(matrix);

**printf("\nRotated Matrix (90
degrees clockwise):\n");**

printMatrix(matrix);

return 0;

}