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public class MainClass {
    public static void main(String[] args) {
        E1();
        E2();
        E3();
    }

    public static void E1() {
        int n = 5;
        for (int i = 1; i <= n; i++) {
            for (int j = 1; j <= n; j++)
                System.out.printf("%3d ", Math.min(i, j));
            System.out.print("\n");
        }
        System.out.println(" ");
    }

    public static void E2() {
        int n = 5;
        for (int i = 0; i < n; i++) {
            for (int j = 1; j <= n; j++) {
                System.out.printf("%3d ", n * i + j);
            }
            System.out.print("\n");
        }
        System.out.println(" ");
    }

    public static void E3() {
        int n = 5;
        int[][] matrix = new int[n][n];

        FillMatrix(matrix, n, 0, 0, 1);

        for (int i = 0; i < matrix.length; i++) {
            for (int j = 0; j < matrix[i].length; j++) {
                System.out.printf("%3d ", matrix[i][j]);
            }
            System.out.println();
        }
    }

    public static void FillMatrix(int[][] matrix, int len, int r, int c, int start) {
        while (len > 0) {

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    for (int i = c; i < (c + len); i++)
        matrix[r][i] = start++;

    for (int i = r+1; i < (r + len); i++)
        matrix[i][c+len-1] = start++;

    for (int i = c + len - 2; i > c-1 ; i--)
        matrix[r+len-1][i] = start++;

    for (int i = r + len -2; i > r; i--)
        matrix[i][c] = start++;

    r++;
    c++;
    len -= 2;
}
}
}

```