```c
/// Final Lab 2557-1: Z
/// Note: this solution does not use array and faster than an array version.

#include <stdio.h>

int main() {
    int N;
    scanf("%d", &N);
    int val = 0;
    for(int i = 0; i < N; ++i) {
        printf("%d ", val);
        val = (val + 1) % 10;
    }
    printf("\n");

    for(int row = 1; row < N - 1; ++row) {
        for(int col = 0; col < N; ++col) {
            if(col == N - row - 1) {
                printf("%d\n", val);
                val = (val + 1) % 10;
                break;
            } else
                printf("  ");
        }
    }

    for(int i = 0; i < N; ++i) {
        printf("%d ", val);
        val = (val + 1) % 10;
    }
}
```