

```

1  /// Final Lab 2557-1: Z
2  /// Note: this solution does not use array and faster than an array version.
3
4  #include <stdio.h>
5
6  int main() {
7      int N;
8      scanf("%d", &N);
9      int val = 0;
10     for(int i = 0; i < N; ++i) {
11         printf("%d ", val);
12         val = (val + 1) % 10;
13     }
14     printf("\n");
15
16     for(int row = 1; row < N - 1; ++row) {
17         for(int col = 0; col < N; ++col) {
18             if(col == N - row - 1) {
19                 printf("%d\n", val);
20                 val = (val + 1) % 10;
21                 break;
22             } else
23                 printf(" ");
24         }
25     }
26
27     for(int i = 0; i < N; ++i) {
28         printf("%d ", val);
29         val = (val + 1) % 10;
30     }
31 }

```