

```

1  /// Quiz 5 2557-1: Matrix Switch using two printing loop.
2  /// This version merges loops together. The code is longer than
3  /// another loop-merging version, but faster because
4  /// it does not need to check if(D == 1) every loop iteration.
5  ///
6  /// Author: Pinyo Taeprasartsit, Dec 2, 2014
7  #include <stdio.h>
8
9  int A[200][200];
10 int main() {
11     int N, D;
12     scanf("%d", &N);
13     for(int row = 0; row < N; ++row) {
14         for(int col = 0; col < N; ++col) {
15             scanf("%d", &A[row][col]);
16         }
17     }
18
19     scanf("%d", &D);
20     if(D == 1) {
21         for(int row = 0; row < N; ++row) {
22             for(int col = 0; col < N; ++col) {
23                 printf("%d ", A[row][(col + N/2) % N]);
24             }
25             printf("\n");
26         }
27     } else if(D == 2) {
28         for(int row = 0; row < N; ++row) {
29             for(int col = 0; col < N; ++col) {
30                 printf("%d ", A[(row + N/2) % N][col]);
31             }
32             printf("\n");
33         }
34     }
35
36     return 0;
37 }

```