

```

1  /// Quiz 5 2557-1: Matrix Switch using one printing loop.
2  /// This version merges loops together. The code is shorter, but slower
because
3  /// it needs to check if(D == 1) every loop iteration.
4  ///
5  /// Author: Pinyo Taeprasartsit, Dec 2, 2014
6  #include <stdio.h>
7
8  int A[200][200];
9  int main() {
10     int N, D;
11     scanf("%d", &N);
12     for(int row = 0; row < N; ++row) {
13         for(int col = 0; col < N; ++col) {
14             scanf("%d", &A[row][col]);
15         }
16     }
17
18     scanf("%d", &D);
19     for(int row = 0; row < N; ++row) {
20         for(int col = 0; col < N; ++col) {
21             if(D == 1) {
22                 printf("%d ", A[row][(col + N/2) % N]);
23             } else if(D == 2) {
24                 printf("%d ", A[(row + N/2) % N][col]);
25             }
26         }
27         printf("\n");
28     }
29
30     return 0;
31 }

```