```
#include <stdio.h>
#define tw 2
__global__ void matadd(int *a, int *b, int *c, int n) {
      int ix = tw*blockIdx.x +threadIdx.x;
      int iy = tw*blockIdx.y + threadIdx.y;
     int idx = iy*n+ix;
     if(idx<n*n)
           c[idx] = a[idx] + b[idx];
}
int main(void) {
     int n;
     scanf("%d",&n);
     int a[n][n];
     int b[n][n];
     int c[n][n];
     for(int i=0; i<n; i++){
           for(int j=0; j<n; j++){
                 scanf("%d", &a[i][j]);
      }
      for(int i=0; i<n; i++){
           for(int j=0; j< n; j++){
                 scanf("%d", &b[i][j]);
     int *a d, *b d, *c d;
     cudaMalloc((void **)&a d, n*n*sizeof(int));
     cudaMalloc((void **)&b d, n*n*sizeof(int));
     cudaMalloc((void **)&c d, n*n*sizeof(int));
     cudaMemcpy(a_d, a, n*n*sizeof(int), cudaMemcpyHostToDevice);
     cudaMemcpy(b_d, b, n*n*sizeof(int), cudaMemcpyHostToDevice);
     dim3 dimGrid(n/2,n/2,1);
     dim3 dimBlock(tw,tw,1);
     matadd<<<dimGrid,dimBlock>>>(a d,b d,c d,n);
     cudaMemcpy(c,c d,n*n*sizeof(int),cudaMemcpyDeviceToHost);
      for(int i=0; i<n; i++)
           printf("%d ",&c[i]);
     printf("\n");
     return 0;
}
```