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#include <iostream>

using namespace std;

const int maxN = 10;

int main ()

{

int a[10][10];

int N;

do {cout <<" Nhap ma tran vuong cap: ";

cin >> N;

if ( N <= 0 || N > maxN)

cout <<" Nhap sai. Nhap lai\n";

} while ( N <= 0 || N > maxN);

int value = 1;

int maxr,maxc,minr,minc;

maxr= maxc = N-1;

minr = minc = 0;

while ( value <= N \* N)

{

// h1

for ( int i =minc; i <= maxc; i++)

a[maxr][i] = value++;

maxr--;

//h2

for ( int i = maxr; i>= minr; i--)

a[i][maxc] = value++;

maxc--;

// h3

for (int i = maxc; i >= minr; i--)

a[minr][i] = value++;

minr++;

// h4

for ( int i = minr; i <= maxr; i++)

a[i][minc] = value++;

minc++;

}

// Xuat mang

for ( int i = 0; i < N; i++)

{

for ( int j = 0; j < N; j++)

cout << a[i][j] <<" \t";

cout << endl;

}

system ("pause");

return 0;

}