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// Xoan oc ma tran vuong cap n

#include <iostream>

#include <conio.h>

using namespace std;

const int maxN = 10;

int main ()

{

int a[maxN][maxN] = {0};

int N;

int minr,minc, maxr,maxc;

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

cin >> N;

if ( N < 2 || N > 10 )

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

\_getch ();

system ("cls");

} while (N < 2 || N > 10 );

minr = minc = 0;

maxr = maxc = N - 1;

int value = 1;

while ( value <= N\*N)

{

// Huong 1

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

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

minr++;

// huong2

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

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

maxc--;

// Huong 3

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

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

maxr--;

// Huong 4

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

}