// ct tim cac duong di cua con ma tren ban co

#include <iostream>

#include <iomanip>

using namespace std;

int n = 5, count = 0; // ban co co 5x5

int x, y, u, v;

int banco[5][5] = {0};

int dx[] = { 2, 1, -1, -2, -2, -1, 1, 2 }; /\* cac gia tri con ma co the di \*/

int dy[] = { 1, 2, 2, 1, -1, -2, -2, -1 };

void InLoiGiai ()

{

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

{

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

cout << setw(3) << banco[i][j];

cout << endl;

}

count++; // dem so nghiem

cout << endl;

}

void Try ( int i )

{

if ( i > n \* n )

InLoiGiai ();

else

for (int j = 0; j < 8; j++)

{

u = x + dx[j];

v = y + dy[j];

if ( u >= 0 && u < n && v >=0 && v < n && banco[u][v] == 0 ) // dk con ma nam trong ban co

{

x = u;

y = v;

banco[x][y] = i;

Try ( i + 1 );

banco[x][y] = 0;

y -= dy[j];

x -= dx[j];

}

}

}

int main ()

{

int x = 0, y = 0;

banco[x][y] = 1;

Try (2);

cout << " So nghiem cua ban co la: " << count << endl;

system ("pause");

return 0;

}