#include<iostream>

using namespace std;

int list[10][10];

int par[10][10]; //par[i][j]=n

int anti[10][10]; //anti[n][?]=i\*10+j;

void init()

{

cout << "输入数字，没有数字的用0代替" << endl;

char c;

for (int i = 1; i < 10; i++)for (int j = 1; j < 10; j++)

{

cin >> c;

list[i][j] = c - '0';

}

cout << "输入每个格子属于哪一块（1-9）" << endl;

for (int i = 1; i < 10; i++)for (int j = 1; j < 10; j++)anti[i][j] = 0;

for (int i = 1; i < 10; i++)for (int j = 1; j < 10; j++)

{

cin >> c;

par[i][j] = c - '0';

for (int k = 1; k < 10; k++)if (anti[par[i][j]][k] == 0)

{

anti[par[i][j]][k] = i \* 10 + j;

break;

}

}

}

bool ok(int i, int j, int k)

{

for (int jj = 1; jj < 10; jj++)if (list[i][jj] == k)return false;

for (int ii = 1; ii < 10; ii++)if (list[ii][j] == k)return false;

int p = par[i][j];

for (int ii = 1; ii < 10; ii++)

if (list[anti[p][ii] / 10][anti[p][ii] % 10] == k)return false;

return true;

}

bool trys(int i, int j)

{

if (j == 10)

{

i++;

j = 1;

}

if (i == 10)return true;

if (list[i][j])return trys(i, j + 1);

for (int k = 1; k < 10; k++)

{

if (ok(i, j, k))

{

list[i][j] = k;

if (trys(i, j + 1))return true;

}

}

list[i][j] = 0;

return false;

}

void out()

{

for (int i = 1; i < 10; i++)

{

for (int j = 1; j < 9; j++)cout << list[i][j] << " ";

cout << list[i][9] << endl;

}

}

int main()

{

init();

trys(1, 1);

out();

system("pause>nul");

return 0;

}