// Ct hoan vi cac so nhap vao

#include <iostream>

using namespace std;

const int maxsize = 100;

int a[maxsize];

int n;

// B1: Hoan doi 2 gia tri

void(swap(int &a, int &b)) // luu y: truyen tham chieu

{

int tam = a;

a = b;

b = tam;

}

void display() // lenh in ra man hinh khi tim dc 1 hoan vi

{

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

cout << a[i] << " ";

cout << endl;

}

void HoanVi(int i) // doi cho a[i] va a[j] cho nhau de dc hoan vi

{

if (i == 0)

display();

else

{

for (int j = i; j >= 0; j--) // xet nguoc

{

swap(a[i], a[j]);

HoanVi(i - 1);

swap(a[i], a[j]);

}

}

}

int main()

{

cout << " Nhap vao n: ";

cin >> n;

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

{

cout << "Nhap vao phan tu a[" << i << "] = ";

cin >> a[i];

}

HoanVi(n - 1);

system ("pause");

return 0;

}