// Nguyen Xuan Thuan

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#include <iostream>

using namespace std;

const int maxsize = 100;

void NhapMang ( int \*a, int n)

{

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

cin >> a[i];

}

void XuatMang ( int \*a, int n)

{

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

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

cout << endl;

}

void DaoNguoc (int \*a, int n)

{

// CAh 1: Dung 2 con tro

//int \*p, int \*q;

//p = a; q = p; // p tro den mang a tai vi tri dau tien

//q = q + n - 1; // q tro den phan tu cuoi cung

//while ( p < q)

//{

// int temp = \*p;

// \*p = \*q;

// \*q = temp;

// p++; q--;

//}

//p = p -( n/2); // dua con tro ve vi tri dau tien de xuat

// CAch 2: DUng chi phap do doi

int left = 0, right = n - 1;

while ( left < right )

{

int temp = \*( a+ left);

\*( a + left) = \*( a+ right);

\*( a+ right) = temp;

left++; right--;

}

}

int main ()

{

int \*a;int n;

do {cout <<" Mang ban thuc te can bao nhieu phan tu: ";

cin >> n;

if ( n <= 0 || n > maxsize )

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

} while ( n <= 0 || n > maxsize );

a = new int[n]; // Khoi tao mang

cout <<" Moi ban nhap vao gia tri cua mang: ";

NhapMang( a, n); // Nhap mang

cout <<" Mang da nhap la: ";

XuatMang( a, n); // Xuat mang cho nguoi dung kiem tra

DaoNguoc(a, n);

cout <<" MAng sau khi dao nguoc la: ";

XuatMang(a, n);

delete []a;

a = nullptr;

system ("pause");

return 0;

}