#include <iostream>

using namespace std;

#include <string>

template <class T>

void mySwap(T &a, T &b)

{

T temp = a;

a = b;

b = temp;

}

template <class T>

void mySort(T arr[], int len)

{

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

{

int max = i;

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

{

if (arr[max] < arr[j])

{

max = j;

}

}

if (max != i)

{

mySwap(arr[max], arr[i]);

}

}

}

template <class T>

void printArray(T arr[], int len)

{

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

{

cout << arr[i] << " ";

}

cout << endl;

}

void test01()

{

char charArr[] = "safagevs";

int num = sizeof(charArr) / sizeof(char);

mySort(charArr,num);

printArray(charArr, num);

}

void test02()

{

int intArr[] = { 3,4,5,6,62,4,83 };

int num = sizeof(intArr) / sizeof(int);

mySort(intArr, num);

printArray(intArr, num);

}

int main()

{

test02();

system("pause");

return 0;

}