#include <iostream.h>

const int NUMEL = 5;

int bubbleSort(int [], int);

int main()

{

int nums[NUMEL] = {22,5,67,98,45};

int i, moves;

moves = bubbleSort(nums, NUMEL);

cout << "\nThe sorted list, in ascending order, is:\n";

for (i = 0; i < NUMEL; ++i)

cout << " " <<nums[i];

cout << endl << moves << " were made to sort this list\n";

return 0;

}

int bubbleSort(int num[], int numel)

{

int i, j, grade, moves = 0;

for ( i = 0; i < (numel - 1); i++)

{

for(j = 1; j < numel; j++)

{

if (num[j] < num[j-1])

{

grade = num[j];

num[j] = num[j-1];

num[j-1] = grade;

moves++;

}

}

}

return moves;

}