/\*Goal: Practice array manipulation in C++.

\*\*The user will input 40 integers.

\*\*Put them into an array. Then print the array in the order the numbers were

\*\*entered. Then print in reverse order. Then sort the array in ascending order

\*\*and print it.

\*\*The each print of the array should separate the numbers in the array by

\*\*one space.

\*\*For example: the array were [3,4,55] the printout would be 3 4 55

\*/

#include <iostream>

#include <stdio.h>

using namespace std;

int main()

{

int userInput[40];

for(int i = 0; i <=40; i++)

{

cin >> userInput[i];

cout << userInput[i] << " ";

}

cout << "\n";

for(int p = 40; p >= 0; p--)

{

cin >> userInput[p];

cout << userInput[p] << " ";

}

for(int i = 0; i < 40; i++)

{

for(int j = 0; j < 39 - i; j++)

{

if(userInput[j] > userInput[j + 1])

{

int temp;

temp=userInput[j];

userInput[j]=userInput[j + 1];

userInput[j + 1]=temp;

}

}

}

std::cout<<"\n\nThe array sorted\n";

for(int i = 0; i< 40; i++)

{

std::cout << userInput[i] <<" ";

}

return 0;

}