/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Excercise 73013 \*

\* Maxwell Stephens \*

\* 12:30 TTh \*

\* 4/11/17 \*

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Write a program that reads in an array of integers. You may assume that there

are fewer than 50 entries in the array .

Your program should sort the array in descending order and print out each

unique value along with how many times it appears in the array in two - column

format.Each column should be of width 10 and left justified.

\*/

#include <iostream>

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#include <algorithm>

#include <string>

#include <sstream>

#include <iomanip>

#include <functional>

using namespace std;

int main()

{

//String to be used

string input = "-12 3 -12 4 1 1 -12 1 -1 1 2 3 4 2 3 -12";

stringstream ss(input);

const int SPACING = 3;

const size\_t SIZE = 50;

int myArray[SIZE] = { 0 };

int count = -1;

//fills the array with integers

while (ss >> myArray[++count]);//NULL statement

//create pointers to the beginning and end of the array

int \*beginning\_limit = myArray;

int \*ending\_limit = myArray + count;

//Sorts the array

sort(beginning\_limit, ending\_limit, greater<int>());

int current = myArray[0];

count = 1;

//counts the number of each value in the array

while (++beginning\_limit != ending\_limit)

{

if (current != \*beginning\_limit)

{

cout << setw(SPACING) << current << setw(SPACING) << count << endl;

current = \*beginning\_limit;

count = 0;

}

++count;

}

//outputs the final value

cout << setw(SPACING) << current << setw(SPACING) << count << endl;

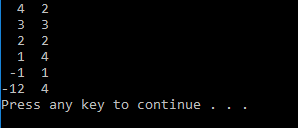
system("pause");

return 0;

}

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SAMPLE OUTPUT:



Self-Evaluation:

4: Works perfectly, code properly documented

I believe I earned 4 points.

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