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#define _CRT_SECURE_NO_WARNINGS
#include <stdio.h>

/*
Title: Number Big to Small
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Description: program that accepts three integers as input and determines
the largest, smallest, and
middle number and prints them in correct order.
*/

double large(num1, num2, num3);
double medium(num1, num2, num3);
double small(num1, num2, num3);
double displayResults(sm, med, lrg);

int main(void)
{
    //variable declerations
    double num1 = 0.0;
    double num2 = 0.0;
    double num3 = 0.0;

    double lrg = 0.0;
    double med = 0.0;
    double sm = 0.0;

    //getting input from user
    printf("Please, input your first numerical value:\n");
    scanf("%lf", &num1);
    printf("Please, input your secound numerical value:\n");
    scanf("%lf", &num2);
    printf("Please, input your third numerical value:\n");
    scanf("%lf", &num3);

    //functions setting thier ouput to small,medium,large
    sm = small(num1, num2, num3);
    med = medium(num1, num2, num3);
    lrg = large(num1,num2,num3);

    //function printing from small number to large number
    displayResults(sm, med, lrg);

    return(0);
}

//functions

//function displays results from small to large
double displayResults(double sm, double med, double lrg)
{
    printf("%lf\n", sm);
    printf("%lf\n", med);

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        printf("%lf\n", lrg);
        return(0);
    }

//function determines smallest number
double small(double num1, double num2, double num3)
{
    double sm = 0.0;

    if (num1 <= num2 && num1 <= num3)
    {
        sm = num1;
    }
    if (num2 <= num1 && num2 <= num3)
    {
        sm = num2;
    }
    if (num3 <= num2 && num3 <= num1)
    {
        sm = num3;
    }

    return(sm);
}

//function deterines middle number
double medium(double num1, double num2, double num3)
{
    double med = 0.0;

    if (num2 >= num1 && num3 <= num1)
    {
        med = num1;
    }
    if (num1 >= num2 && num3 <= num2)
    {
        med = num2;
    }
    if (num2 >= num3 && num1 <= num3)
    {
        med = num3;
    }
    if (num2 <= num1 && num3 >= num1)
    {
        med = num1;
    }
    if (num1 <= num2 && num3 >= num2)
    {
        med = num2;
    }
    if (num2 <= num3 && num1 >= num3)
    {
        med = num3;
    }
}

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        return (med);
    }

    //function determines largest number
    double large(double num1, double num2, double num3)
    {
        double lrg = 0.0;

        if (num1 >= num2 && num1 >= num3)
        {
            lrg = num1;
        }
        if (num2 >= num1 && num2 >= num3)
        {
            lrg = num2;
        }
        if (num3 >= num2 && num3 >= num1)
        {
            lrg = num3;
        }

        return (lrg);
    }
}
```