

Re: C program question

Source: http://coding.derkeiler.com/Archive/C_CPP/alt.comp.lang.learn.c-cpp/2004-10/1015.html

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Date: 10/31/04

Date: Sat, 30 Oct 2004 17:05:47 -0700

On 30 Oct 2004 13:57:47 -0700, oasf2004@yahoo.com wrote:

>Hi All,

>

>*One of the exercises of my C book ("C by Dissection" by Kelley and Pohl) asked me to write a program that reads in an integer value for n and then sums the integers from n to 2 * n if n is nonnegative, or from 2 * n to n if n is negative. I think I was able to write successfully the first part of the exercise, but I couldn't write the second part. Please, see bellow the first part of my code:*

>

>`#include <stdio.h>`

>

>`int main()`

>`{`

> `int n;`

>

> `printf("Input one integer: ");`

> `scanf("%d", &n);`

> `while (n >= 0)`

> `printf("The result is %d\n", n += (2 * n));`

This does not sum the integers from n to 2*n. It only calculates and prints 3*n.

If the user inputs 4, the desired answer is 30 (4+5+6+7+8) while your code prints 12 (4+8).

While there is a formula for the sum of integers from n to 2*n, I am pretty sure the object of the exercise is to generate a loop that computes the desired value.

>

> `return 0;`

>`}`

>

>*How could I write the second part of my code? I have no idea how could I write a second while loop in order to get the sums from 2 * n to n,*

>if *n* is negative. I have tried:
>...
>while (*n* < 0) {
> printf("The result is %d\n", *n* -= (2 * *n*));
>....
>but of course I didn't get the correct answer.
>Thanks in advance for any hint!
>Hoffmann

Once you have the loop for positive values, the corresponding loop for negative ones should be easy.

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