My daughter was given the following task: given the first number x and the second number y, find the nth number. The description was quite vague, but my daughter managed to do the task.

Can you?

**Example**

Turns out, for x = 7, y = 10 and n = 5,  
the output should be  
nthPlace(x, y, n) = 19.

**Input/Output**

* **[time limit] 3000ms (cs)**
* **[input] integer x**

The first number.

*Constraints:*  
1 ≤ x ≤ y.

* **[input] integer y**

The second number.

*Constraints:*  
x ≤ y ≤ 100.

* **[input] integer n**

The number to find.

*Constraints:*  
3 ≤ n ≤ 50.

* **[output] integer**

The nth number.

<https://codefights.com/challenge/x8QJW9AnQtfBCuzSS/main>

static int nthPlace(int x, int y, int n)

{

int dif = y - x;

int nth = 1;

int i;

for (i = x; nth < n; i += dif)

{

nth++;

}

return i;

}