Given integers a and b, calculate the sum of all the digits that appear in numbers in the range [a, b].

**Example**

For a = 1 and b = 10, the output should be  
DigitSumRange(a, b) = 46.

Here's how the answer is calculated: 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + (1 + 0) = 46.

**Input/Output**

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

*Constraints:*  
0 ≤ a ≤ b.

* **[input] integer b**

*Constraints:*  
a ≤ b ≤ 106.

* **[output] integer**

Sum of digits of all the numbers in range [a, b].

<https://codefights.com/challenge/YeHucxXniMDZs2KAg>

static int DigitSumRange(int a, int b)

{

int sum = 0;

for (int i = a; i <= b; i++)

{

int n = i;

while (n > 0)

{

sum += n % 10;

n /= 10;

}

}

return sum;

}