Given a number of the pages in some book find the number of digits one needs to print to enumerate the pages of the book.

**Example**

For n = 11, the output should be  
pagesNumbering(n) = 13.

**Input/Output**

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

A positive integer.

*Guaranteed constraints:*  
1 ≤ n ≤ 108.

* **[output] integer**

<https://codefights.com/challenge/nabwYC86fLpi5NgjN/solutions>

static int pagesNumbering(int n)

{

// number\_of\_digits store total

// digits we have to write

int number\_of\_digits = 0;

// In the loop we are decreasing

// 0, 9, 99 ... from n till

// ( n - i + 1 ) is greater than 0

// and sum them to number\_of\_digits

// to get the required sum

for (int i = 1; i <= n; i \*= 10)

number\_of\_digits += (n - i + 1);

return number\_of\_digits;

}