

Final Recursion

Jojo wants to give you the final challenge about recursion. Here is the function. Suppose that f(x) is a function which returns f(x-1)+1 if x>0, and returns 0 if x=0. Given the input x, determine the value of f(x).

Format Input

A single line consists of an integer x.

Format Output

A single line consists of an integer which describes the value of f(x).

Constraints

• $0 \le x \le 10^9$

Sample Input 1 (standard input)

3

Sample Output 1 (standard output)

3

Sample Input 2 (standard input)

0

Sample Output 2 (standard output)

0

Explanation

On the first sample, the value of f(3) is f(3) = f(2) + 1 = (f(1) + 1) + 1 = ((f(0) + 1) + 1) + 1 = ((1 + 1) + 1) + 1 = (1 + 1) + 1 = 2 + 1 = 3.

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Jojo ingin memberi Anda tantangan terakhir tentang rekursi. Berikut adalah fungsinya. Misalkan f(x) adalah sebuah fungsi yang mengembalikan nilai f(x-1)+1 jika x>0, dan mengembalikan 0 jika x=0. Diberikan masukan x, tentukan nilai dari f(x).

Format Input

Sebuah baris berisi sebuah bilangan bulat x.

Format Output

Sebuah baris berisi sebuah bilangan bulat yang merupakan nilai dari f(x).

Constraints

• $0 < x < 10^9$

Sample Input 1 (standard input)

3

Sample Output 1 (standard output)

3

Sample Input 2 (standard input)

0

Sample Output 2 (standard output)

0

Explanation

Pada contoh kasus uji pertama, nilai dari f(3) adalah f(3) = f(2) + 1 = (f(1) + 1) + 1 = ((f(0) + 1) + 1) + 1 = ((0 + 1) + 1) + 1 = (1 + 1) + 1 = 2 + 1 = 3.

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