## **Increasing Sequence Sum**

Time limit: 1 sec

We define an *increasing sequence sum* of an integer  $\mathbf{N}$  as a sequence  $S = \langle a_1, a_2, ..., a_k \rangle$  such that each element is an integer and  $a_i \leq a_{i+1}$ . There are several increasing sequence sums for each number  $\mathbf{N}$ . Examples of possible increasing sequence sums of 5 are <1, 1, 1, 1, 1> and <1, 2, 2> and <5>. Examples of sequences the summation of which is 5 that is not an increasing sequence sum are <1, 3, 1> and <4, 1> and <1, 1, 2, 1>.

In this problem, you have to find the number of distinct increasing sequence sum of  ${\bf N}$ .

## Input

• The first line of input contains one integer **N**  $(1 \le N \le 100)$ .

## **Output**

The output contain exactly one line that gives the total number of distinct increasing sequence sum of  ${\bf N}$ .

## **Example**

Input	Output
10	42