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## Summation from 1 to N

Input file:            `standard input`  
Output file:          `standard output`  
Time limit:           0.25 seconds  
Memory limit:        256 megabytes

Given a number  $N$ . Print the **summation** of the numbers that is between **1** and  $N$  (**inclusive**).

$$\sum_{i=1}^N i$$

### Input

Only one line containing a number  $N$  ( $1 \leq N \leq 10^9$ )

### Output

Print the **summation** of the numbers that are between **1** and  $N$  (**inclusive**).

### Examples

standard input	standard output
3	6
10	55

### Note

First Example :

the numbers between 1 and 3 are **1,2,3** .

So the answer is: (**1 + 2 + 3 = 6**)

Second Example :

the numbers between 1 and 10 are **1,2,3,4,5,6,7,8,9,10**.

So the answer is: (**1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 = 55**)