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## Summation of its divisors

Input file:           standard input  
Output file:         standard output  
Time limit:          1 second  
Memory limit:       256 megabytes

Given a number  $N$ . Print the **Summation** of its divisors.

### Input

Only one line contains a number  $N$  ( $1 \leq N \leq 10^{12}$ ).

### Output

Print the answer required above.

### Examples

standard input	standard output
12	28
9	13

### Note

In the first example:

The divisors of **12** are [**1, 2, 3, 4, 6, 12**].

Then the result will be  **$1 + 2 + 3 + 4 + 6 + 12 = 28$** .