Print "1' if n is a perfect number, else print the sum of the proper divisors of n.

The output will be matched to the candidate's output printed on the ${\sf STDOUT}$

Constraints:

0 < n < 109

Sample Input:

6

Sample Output:

1

Explanation:

The proper divisors of 6 are 1,2 and 3

sum= 1+2+3=6

So it is a perfect number

Source Code:

```
{\tt def\ proper\_divisor\_sum(n):}
        if n <= 1:
           return 0
        total_sum = 0
        for i in range(1, int(n^{**0.5}) + 1):
            if n % i == 0: # If i is a divisor
                total_sum += i # Add i
                if i != n // i and i != 1: # Add n/i if it's different and not n itself
                    total_sum += n // i
        return total_sum
    # Input handling
    n = int(input().strip())
    # Calculate the sum of proper divisors
    sum_of_divisors = proper_divisor_sum(n)
    # Check if n is a perfect number
    if sum_of_divisors == n:
        print(1)
    else:
        print(sum_of_divisors)
RESULT
  5 / 5 Test Cases Passed | 100 \%
```