## Problem B

For given n  $(n \le 10^7)$ , determine the sum of the greatest common divisors of pairs of integers (a,b) such that  $1 \le a,b \le n$ .

## Input and output

The input consists of a single integer n, the output of a single integer, the value of the sum described above.

Example		
Input:		
100		
Output:		
31080		