## Abundant numbers

An abundant number has factors that sum to more than itself; thus 12 is abundant as $1+2+3+4+6=16>12$; so is 42 as $1+2+3+6+7+14+21=54>42$.

Actually this is an unusual property; write a program that given integers M and N computes the number of abundant numbers between M and N inclusive.

## Input

One line of input featuring two integers $M$ and $N . M<N<2^{31}$

## Output

A single integer on its own line, representing the count of abundant numbers between M and N

## Example

Input:
2041007
Output:
201

