Problem C — limit 1 second

Fear Factoring

The Slivians are afraid of factoring; it's just, well, difficult.

Really, they don't even care about the factors themselves, just how much they sum to.

We can define $F(n)$ as the sum of all of the factors of n; so $F(6) = 12$ and $F(12) = 28$. Your task is, given two integers a and b with $a \leq b$, to calculate

$$S = \sum_{a \leq n \leq b} F(n).$$

Input

The input consists of a single line containing space-separated integers a and b ($1 \leq a \leq b \leq 10^{12}$; $b - a \leq 10^6$).

Output

Print S on a single line.

Sample Input and Output

101 101	102
28 28	56
1 10	87
987654456799 987654456799	987654456800

963761198400 963761198400	5531765944320

5260013877 5260489265	4113430571304040