

Divisors

We define the function $f(x)$ = the number of divisors of x . Given two integers a and b ($a \leq b$), please calculate $f(a) + f(a+1) + \dots + f(b)$.

Input

Two integers a and b for each test case, $1 \leq a \leq b \leq 2^{31} - 1$. The input is terminated by a line with $a = b = 0$.

Output

The value of $f(a) + f(a+1) + \dots + f(b)$.

Sample Input

```
9 12
1 2147483647
0 0
```

Sample Output

```
15
46475828386
```

Hint

For the first test case:

9 has 3 divisors: 1, 3, 9.

10 has 4 divisors: 1, 2, 5, 10.

11 has 2 divisors: 1, 11.

12 has 6 divisors: 1, 2, 3, 4, 6, 12.

So the answer is $3 + 4 + 2 + 6 = 15$.