# Mod Intersect

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|---|---|
| Input file: | `standard input` |
| Output file: | `standard output` |
| Time limit: | 2 seconds |
| Memory limit: | 64 megabytes |

Let's have a series $M(x)$, where $i^{th}$ term of the series is defined as following.

$$M(x)_i = i \ MOD \ x$$

Given four integers $a, b, l, r$ you have to determine the number of matching-intersections for $M(a)$ and $M(b)$ in range $[l, r]$.

We call $i$ to be a matching-intersection if $M(a)_i = M(b)_i$

## Input

Input contains only one line having four space separated integers $a, b, l, r$ in given order.

$1 \leq a \leq b \leq l \leq r \leq 10^{18}$

## Output

Output a single integer denoting the number of matching-intersections.

## Example

| standard input | standard output |
|---|---|
| 1 2 3 4 | 1 |