XVII Open Cup named after E.V. Pankratiev
Stage 4, Eastern Grand Prix, Div 2, Sunday, October 30, 2016

## Problem A. Count The Ones

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 1 second |
| Memory limit: | 256 mebibytes |

Given three integers $a, b$ and $c$. Calculate number of 1 's in the binary representation of number $2^{a}+2^{b}-2^{c}$.

## Input

Input consists of three integers $a, b$ and $c\left(1 \leq c<b<a \leq 10^{9}\right)$.

## Output

Print one integer - number of 1's in the binary representation of $2^{a}+2^{b}-2^{c}$.

## Example

|  | standard input | standard output |
| :--- | :--- | :--- |
| 321 | 2 |  |

