Problem A	Bit Mask
Time Limit	1 Second

In bit-wise expression, mask is a common term. You can get a certain bit-pattern using mask. For example, if you want to make first 4 bits of a 32-bit number zero, you can use 0xFFFFFF0 as mask and perform a bit-wise AND operation. Here you have to find such a bit-mask.

Consider you are given a 32-bit unsigned integer N. You have to find a mask M such that $L \le M \le U$ and N OR M is maximum. For example, if N is 100 and L = 50, U = 60 then M will be 59 and N OR M will be 127 which is maximum. If several value of M satisfies the same criteria then you have to print the minimum value of M.

Input

Each input starts with 3 unsigned integers N, L, U where $L \le U$. Input is terminated by EOF.

Output

For each input, print in a line the minimum value of **M**, which makes **N OR M** maximum. Look, a brute force solution may not end within the time limit.

Sample Input	Output for Sample Input	
100 50 60	59	
100 50 50	50	
100 0 100	27	
1 0 100	100	
15 1 15	1	

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