Maximizing XOR

Problem Statement

Given two integers: *L* and *R*,

find the maximal values of *A* xor *B* given, L ≤ A ≤ B ≤ R

Input Format
The input contains two lines, *L* is present in the first line.
R in the second line.

Constraints
$1 \leq L \leq R \leq 10^3$

Output Format
The maximal value as mentioned in the problem statement.

Sample Input#00

```
1
10
```

Sample Output#00

```
15
```

Sample Input#01

```
10
15
```

Sample Output#01

```
7
```

Explanation

In the second sample let's say $L = 10$, $R = 15$, then all pairs which comply to above condition are
$10 \oplus 10 = 0$
$10 \oplus 11 = 1$
$10 \oplus 12 = 6$
$10 \oplus 13 = 7$
$10 \oplus 14 = 4$
$10 \oplus 15 = 5$
$11 \oplus 11 = 0$
$11 \oplus 12 = 7$
$11 \oplus 13 = 6$
$11 \oplus 14 = 5$
$11 \oplus 15 = 4$
$12 \oplus 12 = 0$
$12 \oplus 13 = 1$

$12 \oplus 14 = 2$
$12 \oplus 15 = 3$
$13 \oplus 13 = 0$
$13 \oplus 14 = 3$
$13 \oplus 15 = 2$
$14 \oplus 14 = 0$
$14 \oplus 15 = 1$
$15 \oplus 15 = 0$
Here two pairs $(10, 13)$ and $(11, 12)$ have maximum xor value 7 and this is the answer.