# Maximizing XOR

**Problem Statement**

Given two integers, *L* and *R*, find the maximal values of *A* xor *B*, where $A$ and $B$ satisfies the following condition:

- $L \leq A \leq B \leq R$

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