# Maximizing XOR

**Problem Statement**

Given two integers, $L$ and $R$, find the maximal value of $A$ xor $B$, where $A$ and $B$ satisfy 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**

```
10
15
```

**Sample Output**

```
7
```

**Explanation**

The input tells us that $L = 10$ and $R = 15$. All the pairs which comply to above condition are the following:
$10 \oplus 10 = 0$
$10 \oplus 11 = 1$
$10 \oplus 12 = 6$
$10 \oplus 13 = 7$
$10 \oplus 14 = 4$
$10 \oplus 15 = 5$
$11 \oplus 11 = 0$
$11 \oplus 12 = 7$
$11 \oplus 13 = 6$
$11 \oplus 14 = 5$
$11 \oplus 15 = 4$
$12 \oplus 12 = 0$
$12 \oplus 13 = 1$
$12 \oplus 14 = 2$
$12 \oplus 15 = 3$
$13 \oplus 13 = 0$
$13 \oplus 14 = 3$
$13 \oplus 15 = 2$
$14 \oplus 14 = 0$
$14 \oplus 15 = 1$
$15 \oplus 15 = 0$

Here two pairs *(10, 13)* and *(11, 12)* have maximum xor value *7*, and this is the answer.