Given two integers, $l$ and $r$, find the maximal value of $a$ xor $b$, written $a \oplus b$, where $a$ and $b$ satisfy the following condition:
$l \leq a \leq b \leq r$
For example, if $l=11$ and $r=12$, then
$11 \oplus 11=0$
$11 \oplus 12=7$
$12 \oplus 12=0$
Our maximum value is 7 .

## Function Description

Complete the maximizingXor function in the editor below. It must return an integer representing the maximum value calculated.
maximizingXor has the following parameter(s):

- I: an integer, the lower bound, inclusive
- $r$ : an integer, the upper bound, inclusive


## Input Format

The first line contains the integer $l$.
The second line contains the integer $r$.

## Constraints

$1 \leq l \leq r \leq 10^{3}$

## Output Format

Return the maximal value of the xor operations for all permutations of the integers from $l$ to $r$, inclusive.
Sample Input 0

```
10
```

15

## Sample Output 0

7

## Explanation 0

Here $l=10$ and $r=15$. Testing all pairs:

$$
10 \oplus 12=6
$$

$$
10 \oplus 13=7
$$

$$
10 \oplus 14=4
$$

$$
10 \oplus 15=5
$$

$$
11 \oplus 11=0
$$

$$
11 \oplus 12=7
$$

$$
11 \oplus 13=6
$$

$$
11 \oplus 14=5
$$

$$
11 \oplus 15=4
$$

$$
12 \oplus 12=0
$$

$$
12 \oplus 13=1
$$

$$
12 \oplus 14=2
$$

$$
12 \oplus 15=3
$$

$$
13 \oplus 13=0
$$

$$
13 \oplus 14=3
$$

$$
13 \oplus 15=2
$$

$$
14 \oplus 14=0
$$

$$
14 \oplus 15=1
$$

$$
15 \oplus 15=0
$$

Two pairs, $(10,13)$ and $(11,12)$ have the xor value 7 , and this is maximal.
Sample Input 1

```
11
100
```


## Sample Output 1

