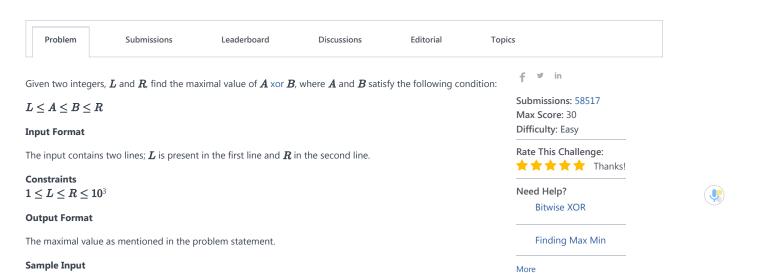


## Maximizing XOR **■**





## **Sample Output**

15

## **Explanation**

The input tells us that L=10 and R=15. All the pairs which comply to above condition are the following:

 $10 \oplus 10 = 0$ 

 $\mathbf{10}\oplus\mathbf{11}=\mathbf{1}$ 

 $10 \oplus 12 = 6$ 

 $10 \oplus 13 = 7$ 

 $10 \oplus 14 = 4$ 

 $10 \oplus 15 = 5$ 

 $\mathbf{11}\oplus\mathbf{11}=\mathbf{0}$ 

 $11 \oplus 12 = 7$ 

 $11 \oplus 13 = 6$ 

 $11 \oplus 14 = 5$  $11 \oplus 15 = 4$ 

 $\mathbf{12}\oplus\mathbf{12}=\mathbf{0}$ 

 $12 \oplus 13 = 1$ 

 $12 \oplus 14 = 2$ 

 $12 \oplus 15 = 3$ 

 $\mathbf{13}\oplus\mathbf{13}=\mathbf{0}$ 

 $13 \oplus 14 = 3$ 

 $13 \oplus 15 = 2$  $14 \oplus 14 = 0$ 

 $14 \oplus 15 = 1$ 

 $15 \oplus 15 = 0$ 

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



```
using System.Collections.Generic;
8
   using System.IO;
9 ▼ class Solution {
10 ▼
     * Complete the function below.
11
12
        static int maxXor(int 1, int r) {
13
14
              int \max_{x} = 0;
                for (int a = 1; a <= r; a++)
15
16
17
                     for (int b = 1; b <= r; b++)
18
19
                         max\_xor = Math.Max(max\_xor, a \land b);
20
21
22
                 return max_xor;
23
24
25
        static void Main(String[] args) {
26
27
            int res;
            int _1;
28
29
            _l = Convert.ToInt32(Console.ReadLine());
30
31
32
            _r = Convert.ToInt32(Console.ReadLine());
33
34
            res = maxXor(_1, _r);
35
            Console.WriteLine(res);
36
37
38
39
                                                                                                      Line: 22 Col: 28
```

Run Code

Submit Code

## Congrats, you solved this challenge! ✓ Test Case #0 ✓ Test Case #1 ✓ Test Case #2 ✓ Test Case #3 ✓ Test Case #4 ✓ Test Case #5 ✓ Test Case #6 ✓ Test Case #7 ✓ Test Case #8 ✓ Test Case #10 ✓ Test Case #11 Next Challenge

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