

# Bitwise AND of Numbers Range

Solution

Given a range  $[m, n]$  where  $0 \leq m \leq n \leq 2147483647$ , return the bitwise AND of all numbers in this range, inclusive.

Example 1:

Input:  $[5, 7]$   
Output: 4

Example 2:

Input:  $[0, 1]$   
Output: 0

Java



```
1 class Solution {
2     int count = 0;
3     public int rangeBitwiseAnd(int m, int n) {
4
5         if(m == 0) return 0;
6         if(m == n) return m;
7
8         int answer = m;
9         for(int i = m+1; i <= n; i++) {
10             answer = answer & i;
11             count++;
12             if(answer == 0) {
13                 break;
14             }
15             if(i == 2147483647) break;
16         }
17         System.out.println(count);
18         return answer;
19     }
20 }
```

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Run Code

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