

Reverse Bits

Try solving the Reverse Bits problem.



Statement

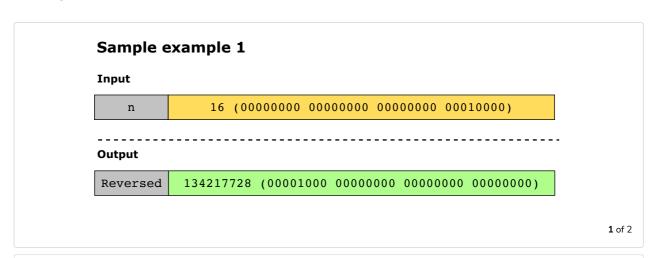
Given an integer n, we need to calculate the 32-bit unsigned integer it would be if we reversed its bits. When we say "reverse" we don't mean flipping the 0s to 1s and vice versa, but simply reversing the order in which they appear – from left-to-right to right-to-left. We need to return the integer the reversed bits result in.

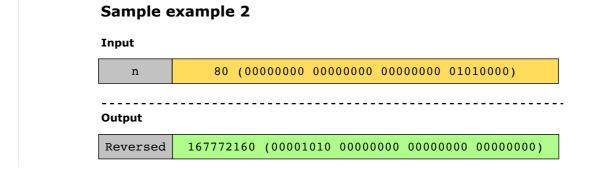
Constraints:

• $0 \le n \le 2^{31}$

In Java, an unsigned integer type does not exist. In such cases, the input is given as a signed integer type.

Examples





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Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

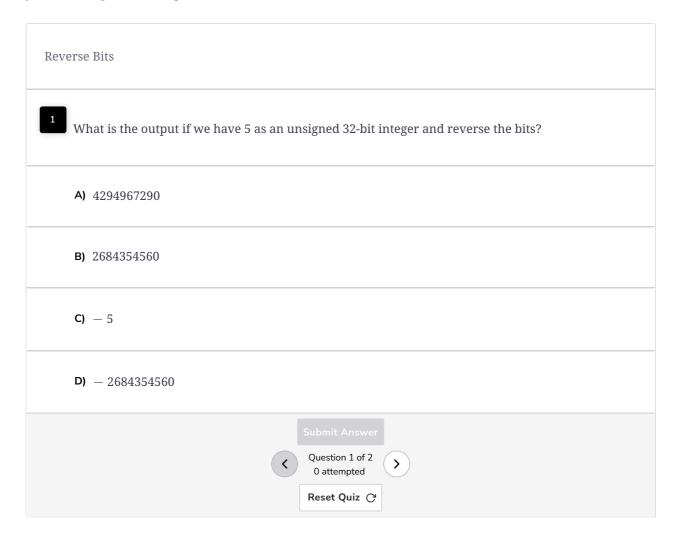
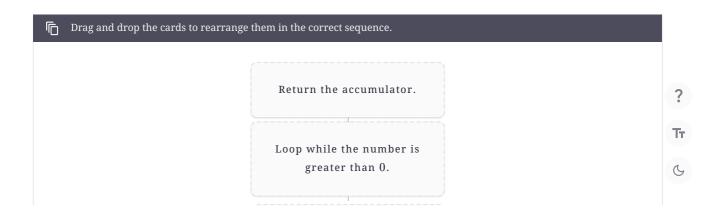
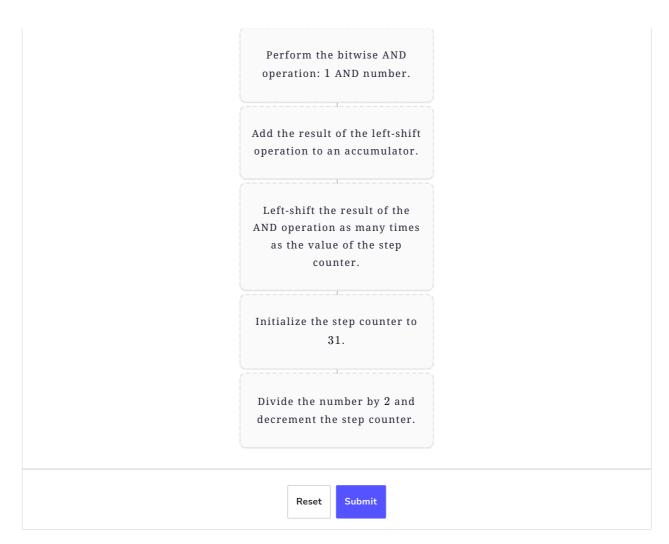


Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

Note: As an additional challenge, we have intentionally hidden the solution to this puzzle.





Try it yourself

Implement your solution in the following coding playground.

Note: We have left the solution to this challenge as an exercise for you. You may try to translate the logic of the solved puzzle into a coded solution.

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👙 Java
                                                                                                 usercode > main.java
   1 import java.util.*;
  2 public class Main{
  3
       public int reverseBits(int n) {
           // Write your code here
  5
             return 0;
  6
         }
  7 }
                                                                                                 Submit
                                                                           Powered by Al
                                                                                                            ?
Test Cases
            Results
                                                                                                            Tτ
  Case 1
            Case 2
                     Case 3
                                                                                                            6
Input #1
```

Reverse Bits



Solution: Two Single ...



Challenge Yourself: Int...



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