Bitwie AND of Mumbers Range

We ned the AND of all numbers from left to right.

They might:

The AND of rouge (left, right I exentially keeps only the common prefix bets of left and right.

Any bit that changes within the sange will eventually become or

Approach 1: Shift entil equal: 1. While left < right - shift both until they are equal.

2. Lep track of how many shifts we did.

3. Thiff brack left afterwards.

Approachz: Remove lowest set bits of right: \
Logs cleaning the least significant bit of sight until sight <= lift.
This effectively removes the varying bits.

Both methods ream in D(e) to O(logn) time, which is efficient for 32-bit integers.