**29.Divide Two Integers**

int divide(int dividend, int divisor) {

    // Handle overflow case

    if (dividend == INT\_MIN && divisor == -1)

        return INT\_MAX;

    int negative = (dividend < 0) ^ (divisor < 0);

    long long ldividend = llabs((long long)dividend);

    long long ldivisor = llabs((long long)divisor);

    int quotient = 0;

    while (ldividend >= ldivisor) {

        long long temp = ldivisor, multiple = 1;

        while ((temp << 1) <= ldividend) {

            temp <<= 1;

            multiple <<= 1;

        }

        ldividend -= temp;

        quotient += multiple;

    }

    return negative ? -quotient : quotient;

}