# 29. Divide Two Integers

## SOLUTION IN JAVA

class Solution {

public int divide(long dividend, long divisor) {

if (dividend == Integer.MIN\_VALUE && divisor == -1)

return Integer.MAX\_VALUE;

final int sign = dividend > 0 ^ divisor > 0 ? -1 : 1;

long ans = 0;

long dvd = Math.abs(dividend);

long dvs = Math.abs(divisor);

while (dvd >= dvs) {

long k = 1;

while (k \* 2 \* dvs <= dvd)

k \*= 2;

dvd -= k \* dvs;

ans += k;

}

return sign \* (int) ans;

}

}