

Exercise 5-2 Finding the least common multiple lcm.c

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- Create a program lcm.c that displays the least common multiple of two integers input from the keyboard.

- However,

- The least common multiple m of the two integers a and b is expressed by $m = ab / d$ using the greatest common divisor d of a and b .
- Create and use the function $d = \text{gcd}()$ to find the greatest common divisor
- The greatest common divisor can be calculated using the following algorithm called the Euclidean algorithm.

- ① Let two integers a and b ($a > b$), and let r be the remainder of dividing a by b .
- ② If r is 0, then b is the greatest common divisor
- ③ If r is not 0, return to ① with $a = b$ and $b = r$

- If 0 or a negative value is entered in either of the two integers, it should terminate abnormally ($\text{exit}(1)$) in main function.
- Implement $\text{gcd}()$ without using recursive calls