Write an algorithm to determine whether a number is a prime number. The algorithm should iterate through possible divisors and determine if the number has any divisors other than 1 and itself.

1:Start

2:input number

3:set count=1

3:set divisor=2

4:Divide the number by divisor

5:If the remainder is 0 add 1 to count variable

6:Add 1 to the divisor

7:Go to step 4 till divisor is equal to number

8:If count is equal to 2

9:It is a prime number

10:End

Create an algorithm that asks the user for a day number (1-365) and outputs the corresponding day of the week, assuming that January 1st is a Monday.

- 1:Read a day number between(1-365)
- 2:Divide the number by 7
- 3:If remainder is 0 then day is Sunday
- 4:If remainder is 1 then day is Monday
- 5:If remainder is 2 then day is Tuesday
- 6:If remainder is 3 then day is Wednesday
- 7:If remainder is 4 then day is Thursday
- 8:If remainder is 5 then day is Friday
- 9:If remainder is 6 then day is Saturday
- 10:Stop

Develop an algorithm for a program that takes two numbers as input and finds the Greatest Common Divisor (GCD) of the two numbers using the Euclidean algorithm.

- 1:Start
- 2:Ask two numbers from users
- 3:Take bigger number as A and smaller number as B
- 4:Divide A by B
- 5:After dividing assign the value of B to A and remainder to B
- 6:Go to step 4 untill B becomes 0
- 7:The value of A is greatest common divisor
- 8:End