

Q1 Pseudocode to find smallest number among 3.

⇒ START

INPUT num 1, num 2, num 3.

SET minimum = num 1

IF (num 1 < num 2) AND (num 1 < num 3).

THEN minimum = num 1

ELSE IF (num 2 < num 1) AND (num 2 < num 3) .

THEN minimum = num 2

ELSE IF (num 3 < num 1) AND (num 3 < num 2) .

THEN minimum = num 3 .

PRINT minimum

END.

Q2 Create pseudocode to subtract two numbers without using the $(-)$ operator

⇒ START

INPUT num 1, num 2

SET ~~max~~ max = 0

SET y = 0

IF (num 1 < num 2)

num 2

THEN set ~~max~~ max = ~~num 2~~

set y = num 1 * (-1)

DIFFERENCE = max + y

ELSE set ~~max~~ max = num 1

set y = num 2 * (-1)

DIFFERENCE = max + y

PRINT DIFFERENCE

END

Q3 Develop pseudocode for basic calculator that performs multiplication and division, and display result of desired operation.

⇒ START

INPUT num1, num2, operator

Set result = 0.

IF operator =  multiplication.

result = num 1 * num 2

ELSE result = num 1 / num 2

PRINT result.

END.

Q1 Write algorithm to determine if a number is prime.

=> START

~~Set counter to 0~~ Input number (n).

~~Set~~ Set counter = 0

For all values 1 to n STEP 1

Divide ~~n~~ n from values 1 to n

IF n is divisible by any numbers between 1 and n

Then print "composite"

Else print "prime"

~~END.~~ END.

Q5 Take 2 numbers and develop algorithm to find greatest common divisor using Euclidean algorithm.

=> START

Input num 1 and num 2

IF num 1 > num 2, set num 1 as greater and num 2 as smaller.

ELSE set num 2 as greater and num 1 as smaller.

S1 ~~Divide~~ Divide greater by smaller and find remainder.

S2 { IF remainder = 0, print smaller as GCD.

ELSE set smaller as greater and remainder as smaller.

Repeat S1-S2 until remainder = 0

Print GCD

END.

Q Create pseudocode that asks user day number and provides day, assuming Jan 1 is Monday.

⇒ ~~Start~~ START

INPUT day number (1-365)

Set Remainder = 0

Remainder = ~~the~~ day number % 7

% = mod

$7 \% 2 = 7 \text{ divided by } 2$
remain

IF Remainder = 0

THEN PRINT "Sunday"

ELSE IF Remainder = 1

THEN PRINT "Monday"

ELSE IF Remainder = 2

THEN PRINT "Tuesday"

ELSE IF Remainder = 3

THEN PRINT "Wednesday"

ELSE IF Remainder = 4

THEN PRINT "Thursday"

ELSE IF Remainder = 5

THEN PRINT "Friday"

ELSE IF Remainder = 6

THEN PRINT "Saturday"

END.