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Algorithm

Step1: start

Step2: Input num1, num2.

Step3: hcf = gcd (num1, num2)

Step4: lcm = (num1 * num2) / hcf

Step5: output gcD.

Step6: output . Lcm

Step 7: stop

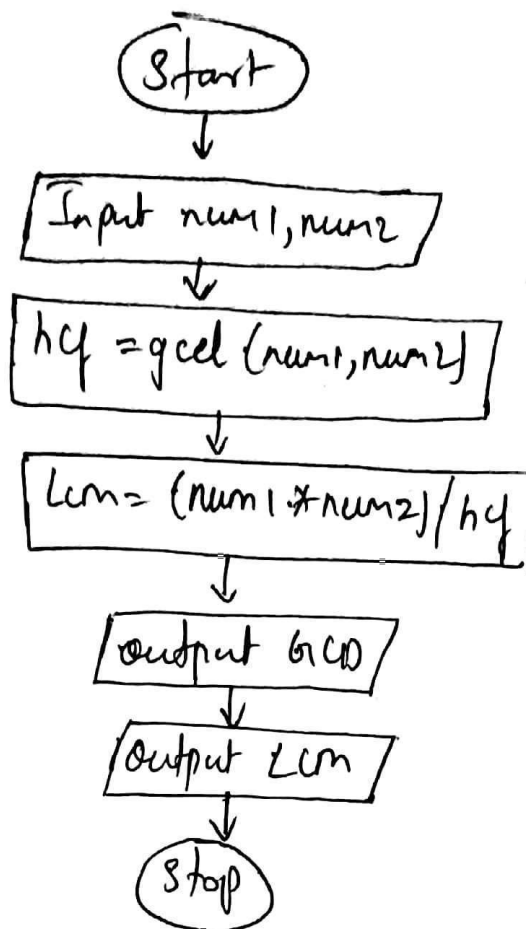## int gcd (int x, int y)

Step1: Entry

Step2: if (y == 0)

   return x

   else
   return gcd (y, x % y)

Step 3: End.

Flow chart

```
          ( Start )
              │
              ▼
  / Input num1, num2 /
              │
              ▼
  | hcf = gcd (num1, num2) |
              │
              ▼
  | Lcm = (num1 * num2) / hcf |
              │
              ▼
     / output GCD /
              │
              ▼
     / output Lcm /
              │
              ▼
          ( Stop )
```

int gcd (int x, int y)

```
                    ( Entry )
                        │
                        ▼
        False      < if (y == 0) >      True
      ◄────────────                ────────────►
      │                                          │
      ▼                                          ▼
( return gcd (y, x y . y) )              ( Return x )
              │                              │
              └──────────────┬──────────────┘
                             ▼
                          ( End )
```