```
NEGATIVE NUMBERS:
;;Start program and Load Output
begin:          LOD z
;;Subtract x from the Accumulator
                SUB x
;;Store the Output
                STO z
;;Load y to the Accumulator
                LOD y
;;Subtract one from accumulator
                DEC
;;Store y
                STO y
;;If Accumulator value is 0, quit and go to begin
                JMZ quit
;;Go to begin
                JMP begin
                x:3
                y:2
                z:0
                quit: HLT




ZERO:

;;Start program and Load Output
begin:          LOD z
;; Add x  from the Accumulator
                SUB x
;;Store the Output
                STO z
;;Load y to the Accumulator
                LOD y
;;Subtract one from accumulator
                DEC
;;Store y
                STO y
;;If Accumulator value is 0, quit and go to begin
                JMZ quit
;;Go to begin
                JMP begin
                x:0
                y:2
                z:0
                quit: HLT
 REMAINDER:
;;Start the code
```

```
begin:
;;Load the output
      LOD x
;;Subtract y from the Accumulator
      SUB y
;;quit if y is less than 0
      JMN quit
;;Store the output
      STO x
;;Load z into AC
      LOD z
;;Increase z to the Accumulator
      INC
;;Store z
      STO z
;;Start Over
      JMP begin
;;Stop
      HLT


      x: 11 (dividend but turns into where the remainder is stored at the
end)
      y: 5 (divisor)
      z: 0 (quotient)
      quit: HLT
```