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-- Name: Ano N. Ymous
-- Does spell out Percent; note drivers

Routine spellPercent (pct)
  Slot pct ofType int
-- Does spell out percent 0 to 100
  If (pct == 0) then
    Output "zero "
  ElseIf (pct == 100) then
    Output "hundred "
  ElseIf (pct < 10) then
    Call spellUnits with (pct)
  ElseIf (pct < 20) then
-- Call spellTeens with (pct)
  Else
    Call spellTens with (pct / 10)
    Call spellUnits with (pct % 10)
  EndIf
  Output "percent" -- or "%"
EndRoutine spellPercent

Routine spellTens (p)
  Slot p ofType int
-- Does spell 20 to 90 prefix
  If (p == 2) then
    Output "twenty "
  ElseIf (p == 3) then
    Output "thirty "

-- later for 4,5,6,7,8 -- driver

  ElseIf (p == 9) then
    Output "ninety "
  EndIf
EndRoutine spellTens

Routine spellTeens (t)
  Slot t ofType int -- 10 to 19
-- Does (later) spell out t
  Output t -- dummy driver
EndRoutine spellTeens

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Routine spellUnits (d)
  Slot d ofType int -- digit
-- Does spell out units 1 .. 9 : NOTE no 0
  If (d == 1) then
    Output "one "
  ElseIf (d == 2) then
    Output "two "
  ElseIf (d == 3) then
    Output "three "

-- later for 4,5,6,7,8 -- driver

  ElseIf (d == 9) then
    Output "nine "
  EndIf
EndRoutine spellUnits

Routine mainSpeller (none)
-- does test spellout routines
  Box num ofType int
Start
  Output "Enter a percent "
  Input num
  Outputln num -- echo
  Call spellPercent with (num)
  Outputln " " -- gap
  Outputln " " -- gap
EndRoutine mainSpeller

Enter a percent 0
zero percent

Enter a percent 100
hundred percent

Enter a percent 39
thirty nine percent

Enter a percent 90
ninety percent

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