# Algorithm: Subtraction of floating point numbers

- Read x1, e1, x2 and e2
- Set k = | e1-e2 |
- If (e1>e2) then
  x2 = $\frac{x2}{10^k}$
  e = e1
- else
  x1 = $\frac{x1}{10^k}$
  e = e2
- End if
- Set x = x1 - x2
- While ((abs(x)<0.1) and (abs(x)>0.0)) do
  x = x*10
  e = e-1
  End while
- If (e < -99) then
  Print ("Underflow")
  STOP
  End if
- Print(x, e)

  END

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