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#COMPILE EXE
#DIM ALL
  REM *** illustration of requirement for circulation, 2019
  GLOBAL i,j,xpos,ypos,iter,zz AS SINGLE
FUNCTION PBMAIN
  DIM psi(45,35) AS SINGLE
  FOR j=1 TO 35
    FOR i=1 TO 45
      psi(i,j)=60-(j-1)*1.765
    NEXT i:NEXT j
100 REM *** handle inclined plate
  FOR i=11 TO 21
    j=23-(i-11)
    psi(i,j)=12
  NEXT i
  REM *** perform iterative calculation
  FOR j=2 TO 34
    FOR i=2 TO 44
      psi(i,j)=1/4*(psi(i+1,j)+psi(i-
1,j)+psi(i,j+1)+psi(i,j-1))
    NEXT i:NEXT j
    iter=iter+1
    PRINT iter,psi(20,21)
    IF iter<1500 THEN 100 ELSE 200
200 REM *** continue
      OPEN "c:nocircula.dat" FOR OUTPUT AS #1
      FOR j=1 TO 35
        FOR i=1 TO 45
          WRITE#1,i,j,psi(i,j)
        NEXT i:NEXT j
      INPUT "shall we continue?";zz
      IF zz>0 THEN CLOSE
      END
END FUNCTION

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