```
#up*#ilb+#inq=#inqq
                                                                                                                                                                                                  0089
                                                                                                       a = a + 3 \cdot 1 - 2 \cdot 
                                                                                                                                                                                                   0049
                       (2^{+ind_*S}) = 0.80616 (#inda*S) = 0.80616 (#inda*S) = 0.80616 (#inda*S) = 0.80616 (#inda*S) = 0.80616
                                                                                                                                                                                                   0099
                                                                                                                                                                                                   2200
     Le#=9#* (hil#+hi2#* cos(2*phi#) -hi3#* cos(4*phi#) +hi4#* cos(6*phi#)
                                                                                                                                                                                                   0019
                                                                                                               if (i+1)>hi# then goto 9200
                                                                                                                                                        (Z) #ui = (I) #ui
                                                                                                                                                                                                   2300
                                                                                  For i=(h+(j-1)+dh+) to h+(j) step dh+
                                                                                                                                                                                                   2200
                                                                                                                                                                 (\Gamma) \# q = \# q p
                                                                                                                                                                                                   0019
                                                                                                                                                          for j=l to m
                                                                                                                                                                                                   2000
                200.0 = (9) \text{ #mep} : 8200.0 = (8) \text{ #mep} : 0 = (7) \text{ #mep} : 8200.0 = (6) \text{ #mep}
                                                                                                                                                                                                   0067
100.0 - (2) + mep: 0 = (4) + mep: + imep: (5) + mep: + imep = (5) + mep: + imep = (1) + mep = (1) + mep = (2) + mep: + imep = (4) + mep = (5) + mep = (5) + mep = (5) + mep = (6) + mep = (7) + mep = (7) + mep = (8) + mep 
                                                                                                                                                                                                   008F
                    001 = (01) # 4q : 09 = (6) # 4q : 07 = (8) # 4q : 07 = (7) # 4q : 07 = (9) # 4q
                                                                                                                                                                                                   00Lt
  S=(S)#dd : S=(P)#dd : S=(E)#dd : C=(S)#dd : C=(D)#dd : O=(D)#dd
                                                                                                                                                                                                   009b
 \#iq=(6)\#iq:008I\angle=(8)\#iq:00pIZ=(2)\#iq:0pEZp=(9)\#iq:09IZE=(2)\#iq
                                                                                                                                                                                                   00St
              00bb
                                                                                                                                                                                                   4300
                                                                     \#01=(0)\#41 : \#00=(0)\#40 : \#00=(0)\#40 : \#00=(0)\#40
                                                   4200
                                     lprint "lin.aenderung dphi/m = ";dfi#/fak#;" grad/m"
                                                                                                                                                                                                   00Ib
          lprint "geogr. breite im beobachtungspunkt ";phi#/fak#;" grad"
                                                                                                                                                                                                   000b
                                                               lprint "luftbrechungsindex am boden = 1";n0#
                                                                                                                                                                                                   3000
                                                                                                                     U0#=(cJ#*p0#-cO#*eO#) \setminus fO#
                                                                                                                                                                                                   3800
                                     c0#=\unorm=*\tau-0.00236309)*\tau+\pn+\pn+\pn+
                                                                                                                                                                                                   3700
   LeO#=9#x (hil#+hil2#+hil2#*cos(2*phi#) -hi3#*cos(4*phi#) +hi4#*cos(2*phi#)
                                                                                                                                                                                                   3600
        6-98=#pid : 6-9922.5=#Eid : 6-986p370.1=#Sid : 670726899.0=#fid
                                                                                                                                                                                                   3200
                                                                                  0418763=#6 : 21.882=#nJ : 22.6101=#nq
                                                                                                                                                                                                   3400
                                                              to#=to#+273.15 : r#=2.8705e2 : cp#=1.00482e3
                                                                                                                                                                                                   3300
3500
                          lprint "temperaturgradient in bodennaehe = ";gami#;" K/m"
                                                                                                                                                                                                   3100
                                              lprint "dampfdruck = ";int(100*e0#+0.5)/100;" hPa"
                                                                                                                                                                                                   3000
                                               (#J7*6E.S-87.008S)\(#1J-#0J)*#0q*7\PZL3.I-#labq=#09
                                                                                                                                                                                                   0062
                                                                         ((#]J+2\1.034.1\5\4.1\4.0.\7\) qx9*8\01.0=#]sbq
                                                                                                                                                                                                   2800
                                     lprint "bodenfeuchttemperatur = ";tf#;" grad celsius"
                                                                                                                                                                                                   2700
                                                                                                                     if jn*="j" then goto 3000
                                                                                                                                                                                                   2600
                                                       lprint "bodentemperatur = ";t0#;" grad celsius"
                                                                                                                                                                                                   2200
                                                                                               jbrint "bodendruck = ";p0#;" hPa"
                                                                                                                                                                                                   2400
                               lprint "zenitdistanz des lichtstrahls = ";zeta#;" grad"
                                                                                                                                                                                                   2300
                                                                                                                  Jbrint "hoehe = ";hi#;" m"
                                                                                                                                                                                                   2200
                                         lprint "lichtwellenlaenge = ";la#*10000;" angstroem"
                                                                                                                                                                                                   2100
                                                                                                                                                     dfi#=dfi#*fak#
                                                                                                                                                                                                   2000
                 input "lin.aend.dphi laengs d.lichtkurve (grad/meter) ";dfi#
                                                                                                                                                                                                   0061
           input "temperaturgradient in bodennaehe (grad/meter) = ";gami#
                                                                                                                                                                                                   1800
                                                         input "feuchttemperatur (grad celsius) = ";tf#
                                                                                                                                                                                                   00LT
                                                                                                                                                                    dofo 1800
                                                                                                                                                                                                   009T
                                                                                                          input "dampfdruck (hPa) ";e0#
                                                                                                                                                                                                    00ST
                                                                                                                      if ju$="n" then goto l700
                                                                                                                                                                                                    1400
                                                            input "ist der dampfdruck bekannt (i/n) ";in$
                                                                                                                                                                                                    1300
                                                               input "lufttemperatur (grad celsius) = ";t0#
                                                                                                                                                                                                   1500
                                                                                                     input "bodendruck (hPa) = ";p0#
                                                                                                                                                                                                    OOTT
                                     input "zenitdistanz des lichtstrahls (grad) = ";zeta#
                                                                                                                                                                                                    1000
                                                                                                                         \#input "hoehe (m) = ";hi#
                                                                                                                                                                                                      006
                                                                                                                                                      phi#=phi#*fak#
                                                                                                                                                                                                      008
input "geographische breite phi im beobachtungsort (grad) = ";phi#
                                                                                                                                                                                                      007
                                                                                                                                                        19#=19#\10000
                                                                                                                                                                                                      009
                                                                input "lichtwellenlaenge (angstroem) = ";la#
                                                                                                                                                                                                      009
                                                                                                                               fgk#=3.141592654/1.8e2
                                                                                                                                                                                                      00b
                        (LZ) #dd, (LZ) #hd, (LZ) #mep, (LZ) #dd, (LZ) #hdq, (LZ) #ni mib
                                                                                                                                                                                                      300
                                                                                                                                          clearw 2 : fullw 2
                                                                                                                                                                                                      200
      rem kleines basic programm 1 berechnung des refraktionsintegrals
                                                                                                                                                                                                       OOT
```