```
th#(j) = th#(j-1) - gam#(j) * (i-h#(j-1))
5900
6000 if i=1 then gosub 9800
6100 if j=2 then gosub 9800
     if j=3 then gosub 9800
6200
6300
     if j=4 then gosub 10200
6400 if j=5 then gosub 9800
6500 if j=6 then gosub 9800
6600 if j=7 then gosub 10200
6700 if j=8 then gosub 9800
6800 if i=9 then gosub 9800
6900 if j=1 then z=2.4
     if j=2 then z=3.3
7000
      if j > 2 then z=4
7100
      eh+(j)=e0+*(ph+(j)/p0+)^z : deh+=z*eh+(j)*dph+/ph+(j)
7200
7300 n1#=(c1#*ph#(j)-c0#*eh#(j))/th#(j)
7400 dnp#=c1#/th#(j) : dne#=-c0#/th#(j) : dnt#=-n1#/th#(j)
7500 dn#=dnp#*dph#+dne#*deh#+dnt#*dth#
7600 wu\#= sgr((re\#+i)*(re\#+i)*(n1\#+1)*(n1\#+1)-k\#*k\#)
7700 if wu#=0 then print "x"
7800 if wu#=0 then wu#=k#
7900
     in#(2) = dh*k**(dn*-dn**n1*+dn**n1**n1*)/wu*
8000 ref#=ref#+(in#(1)+in#(2))/2
8100 if i=100 then gosub 10500
8200 if i=1500 then gosub 10500
8300 if i=3000 then gosub 10500
8400 if i=5000 then gosub 10500
8500 if i=12000 then gosub 10500
8600 if i=50000 then gosub 10500
8700
     next i
8800 gosub 11300
8900 print int(min#); " min "; sec#; " sec"
9000 next i
9100 lprint : lprint "hoehe = ":hi#
     lprint : lprint "hoehe = ";hi#;" m"
9200
9300 lprint "luftbrechungsindex (n-1) = ";n1#
9400 gosub 11300
     lprint "refraktion = ";int(min#);" minuten ";sec#;" sekunden"
9500
9600 print "refraktion = ";int(min#);" minuten ";sec#;" sekunden"
9700 end
9800 ph#(j)=ph#(j-1)*(th#(j)/th#(j-1))^(g#/r#/gam#(j))
9900 gg_{+}=g_{+}/r_{+}/th_{(j)}+log(th_{(j)}/th_{(j-1)})*2*g_{+}/r_{gam_{(j)}}/(re_{+i})
10000 dph\#=-ph\#(j)*gg\#: dth\#=-gam\#(j)
10100 return
10200 ph#(j) = ph#(j-1) * exp(-g#*(i-h#(j-1))/r#/th#(j))
10300 dph#=ph#(j)*g#*(2*(i-h#(j-1))/(re#+i)-1)/r#/th#(j-1) : dth#=0
10400 return
10500 lprint : lprint "hoehe = ";i;" m"
10600 lprint "temperatur = "; th#(j)-273.15;" grad celsius"
10700 lprint "druck = "; int(100*ph#(j)+0.5)/100;" hpa"
10800 lprint "dampfdruck = "; int(1000*eh#(j)+0.5)/1000;" hpa"
10900 lprint "luftbrechungsindex (n-1) = ";n1#
11000 gosub 11300
11100 lprint "refraktion = ";int(min#);" minuten ";sec#;" sekunden"
11200 return
11300 min#=ref#*60/fak#
11400 if min#<0 then min#=-min#
11500 sec = int(600*(min = -int(min = )) + 0.5)/10
11600 return
```