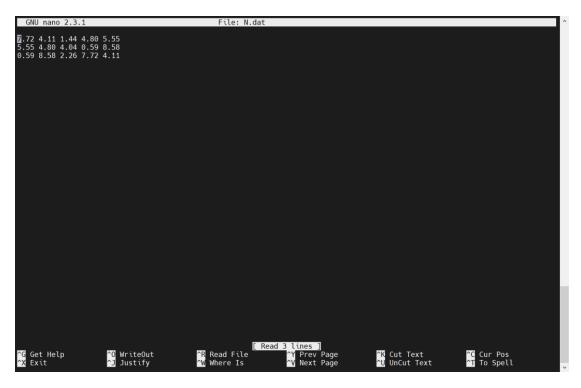
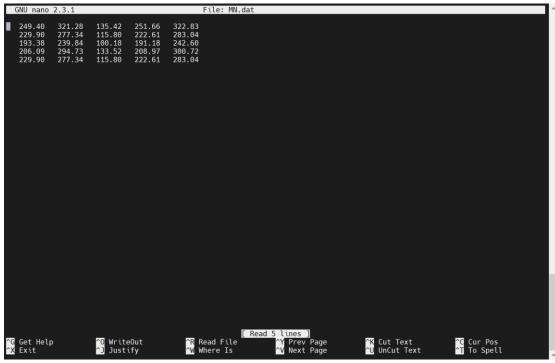
学生:田宽 批改:李娟 得分:40/40 1、 [ese-tiank@login02 ~]\$ cd fortran\_demo1/ [ese-tiank@login02 fortran\_demo1]\$ ls [ese-tiank@login02 fortran\_demo1]\$ nano M.dat [ese-tiank@login02 fortran\_demo1]\$ nano N.dat [ese-tiank@login02 fortran\_demo1]\$ nano main.f90 [ese-tiank@login02 fortran\_demo1]\$ nano Matrix\_multip.f90 [ese-tiank@login02 fortran\_demo1]\$ nano Matrix\_multip.f90 [ese-tiank@login02 fortran\_demo1]\$ nano Matrix\_multip.f90 [ese-tiank@login02 fortran\_demo1]\$ gfortran Matrix\_multip.f90 main.f90 -o Matrix\_m.x

[ese-tiank@login02 fortran\_demo1]\$ ./Matrix\_m.x

```
[ese-tiank@login02 ~]$ ll
tral 4
tral
```

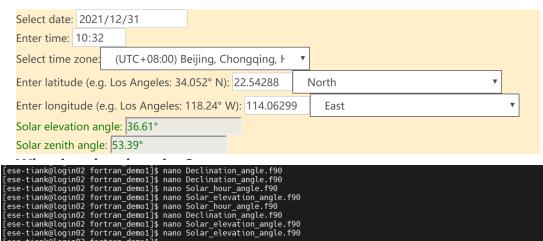




```
[ese-tiank@login02 fortran demo1]$ nano Declination angle.f90
[ese-tiank@login02 fortran_demo1]$ nano Solar_hour_angle.f90
[ese-tiank@login02 fortran_demo1]$ nano Solar_elevation_angle.f90
[ese-tiank@login02 fortran_demo1]$ gfortran -c Declination_angle.f90
[ese-tiank@login02 fortran_demo1]$ gfortran -c Solar_hour_angle.f90
[ese-tiank@login02 fortran_demo1]$ ar rcvf libsubs.a Declination_angle.o Solar_hour_angle.o
a - Declination_angle.o
a - Solar_hour_angle.o
[ese-tiank@login02
                       fortran_demo1]$
                                            gfortran
                                                         Solar_elevation_angle.f90
                                                                                      -0
Solar elevation angle.x -L. -lsubs
[ese-tiank@login02 fortran_demo1]$ ./Solar_elevation_angle.x
 the SEA for Shenzhen (22.542883N, 114.062996E) at 10:32 (Beijing time; UTC+8) on 2021-
12-31:
         36.635054661771022
```

## Solar elevation angle calculator

Select the date & time and your timezone, enter your longitude & latitude to calculate the solar elevation angle (or solar latitude angle) and zenith angle.



```
[ese-tiank@login02 fortran_demo1]$ nano Declination_angle.f90
[ese-tiank@login02 fortran_demo1]$ nano Solar_hour_angle.f90
[ese-tiank@login02 fortran_demo1]$ nano Solar_elevation_angle.f90
[ese-tiank@login02 fortran_demo1]$ nano Beclination_angle.f90
[ese-tiank@login02 fortran_demo1]$ nano Declination_angle.f90
[ese-tiank@login02 fortran_demo1]$ nano Bolar_elevation_angle.f90
[ese-tiank@login02 fortran_demo1]$ nano Solar_elevation_angle.f90
[ese-tiank@login02 fortran_demo1]$ gfortran_cemo1]$ ar rcvf libsubs.a Declination_angle.o Solar_hour_angle.o

a - Declination_angle.o

a - Solar_hour_angle.o

a - Solar_hour_angle.o
[ese-tiank@login02 fortran_demo1]$ gfortran Solar_elevation_angle.f90 -o Solar_elevation_angle.x -L -lsubs

//tmp/cctEx9mJ.o: In function `MAIN__':

Solar_elevation_angle.f90:(.text+0x5d): undefined reference to `__declination_angle_MOD_declin_angle'
Solar_elevation_angle.f90:(.text+0x5d): undefined reference to `__solar_hour_angle_MOD_solarhour_angle'
collect2: error: ld returned 1 exit status
[ese-tiank@login02 fortran_demo1]$ gfortran Solar_elevation_angle.f90 -o Solar_elevation_angle.x -L. -lsubs
[ese-tiank@login02 fortran_demo1]$ fortran_solar_elevation_angle.f90 -o Solar_elevation_angle.x -L. -lsubs
```