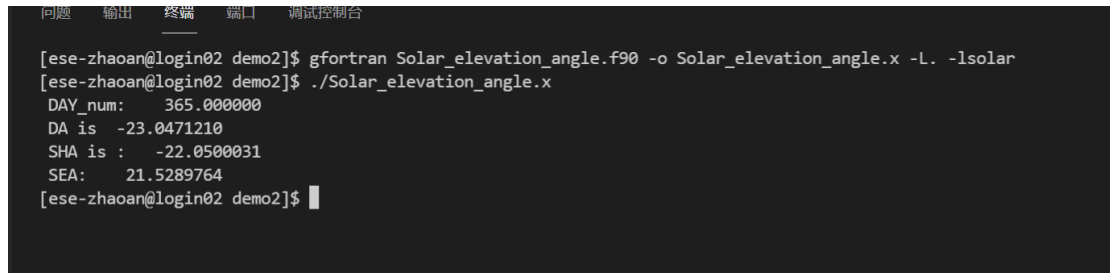


1

没输出结果，可以删除 MN 文件，然后执行 main，可以得到 MN 的相乘结果

2

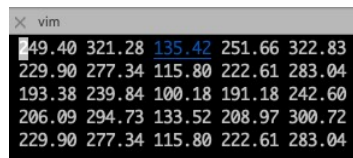


```
[ese-zhaoan@login02 demo2]$ gfortran Solar_elevation_angle.f90 -o Solar_elevation_angle.x -L. -lsolar
[ese-zhaoan@login02 demo2]$ ./Solar_elevation_angle.x
DAY_num:      365.000000
DA is  -23.0471210
SHA is  -22.0500031
SEA:    21.5289764
[ese-zhaoan@login02 demo2]$
```

For 1, the answer and code are correct. Good (14/15). 1 point was deducted since you did not show the command line of how to use module. And actually you need to use f9.2, not f7.2...



```
haohuang@ahaha Assignments_06 % gfortran Matrix_multip.f90 Main.f90 -o Main.x
haohuang@ahaha Assignments_06 % ./Main.x
haohuang@ahaha Assignments_06 % vim MN.dat
haohuang@ahaha Assignments_06 %
```



```
vim
49.40 321.28 135.42 251.66 322.83
229.90 277.34 115.80 222.61 283.04
193.38 239.84 100.18 191.18 242.60
206.09 294.73 133.52 208.97 300.72
229.90 277.34 115.80 222.61 283.04
```

For 2, first, that should be  $\pi/180$ , not  $\pi/360$ , in the Solar\_elevation\_angle.f90. So, you could not get correct answer.

Second, I suggest you to use asind and sin, replacing  $\text{asin}(*180/\pi)$  and  $\sin(\pi/180*)$ .

Third, I think it is good to write the code for calculating the number of days before a given date, although that is beautiful enough. Please refer to this method for calculating the number of days: <https://www.cnblogs.com/Pupa/p/10467523.html>

3 points were deducted for the wrong answers.