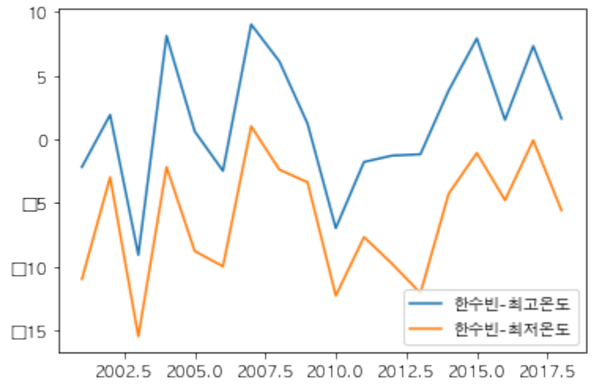
In [12…

```python
#퀴즈1
import csv
import matplotlib.pyplot as plt

f = open('seoul.csv', encoding='CP949')
data = csv.reader(f)
next(data)
high = [] # 최고
low = [] # 최저
year = [] # 연도


for row in data :
    if row[-1] != '' :
        if int(row[0].split('-')[0]) >= 2001 and row[0].split('-')[1] == '01' and row[0].split('-')[2] == '05' :
            high.append(float(row[-1]))
            low.append(float(row[-2]))
            year.append(row[0].split('-')[0])
            if max(high) == float(row[-2]) :
                max_year = row[0].split('-')[0]
            if max(low) == float(row[-2]) :
                min_year = row[0].split('-')[0]

high = list(map(float, high))
low = list(map(float, low))
year = list(map(float, year))


plt.plot(year, high, label='한수빈-최고온도')
plt.plot(year, low, label='한수빈-최저온도')
plt.rc('font', family = 'AppleGothic')
plt.legend(loc=4)
plt.show()

print('최고온도 ', max_year , ' : ', max(high))
print('최저온도 ', min_year , ' : ', min(low))
```



최고온도 2015 : 9.0
최저온도 2007 : -15.5

In [58…

```python
# 퀴즈2-1
import csv
import matplotlib.pyplot as plt

f = open('rain.csv', encoding='CP949')
data = csv.reader(f)
next(data)

rains = []
result = []

for row in data :
    if row[-1] != '' :
        rains.append(float(row[-1]))
        #print(row[-1])

rains.sort()

f = open('rain.csv', encoding='CP949')
data = csv.reader(f)
next(data)

for row in data :
    if row[-1] != '' :
        if(float(rains[-1]) == float(row[-1])) :
            result.append('1 .'+ str(row[0])+ ' : '+ str(rains[-1]))
        if(float(rains[-2]) == float(row[-1])) :
            result.append('2 .'+ str(row[0])+ ' : '+ str(rains[-2]))
        if(float(rains[-3]) == float(row[-1])) :
            result.append('3 .'+ str(row[0])+ ' : '+ str(rains[-3]))

print(result)
```

['1 .1920.8.2 : 354.7', '2 .1998.8.8 : 332.8', '3 .2011.7.27 : 301.5']

In [12…

```python
# 퀴즈2-2
import csv
import matplotlib.pyplot as plt

f = open('rain.csv', encoding='CP949')
data = csv.reader(f)
next(data)

rains = []
days = []
result = []
counts = []

for row in data :
        rains.append(row[-1])
        days.append(row[0])


temp = []
count = 0
for i in range (0, len(rains)) :
    if rains[i] == '0' or rains[i] == '' :
        count += 1
        temp.append(days[i])
    else :
        if(temp != []) :
            result.append([temp[0] + ' ~ ' + temp[-1], len(temp)])
            counts.append(len(temp))
        temp = []

result.sort(key=lambda x: -x[1])

print(result[0])
```

['2018.12.18 ~ 2019.1.31', 45]