

changed_temperature_on_my_birthday

July 30, 2021

```
[73]: '''
next()
function header
consumer data header

row[ , , (C), (C), (C)] -1
data : [] = list() list data list()
,
data : [] = None
def save_highest_temperature(self):
    data = list()
,
data : [] =list()
'''
```

```
[73]: '\nnext()          .\nfunction          header          .\nconsumer
data    header          .\n\nrow[ , , (C), (C), (C)]          -1 . \n
data
: [] = list() list    data    list()          .\n
.          .\n
data : [] = None\ndef save_highest_temperature(self):\n
data = list()\n
,          .\n
data : [] =list()\n'
```

```
[96]: import csv
import matplotlib.pyplot as plt
import random
```

```
[97]: data = csv.reader(open('data/seoul.csv', 'rt', encoding='UTF-8'))
```

```
[98]: next(data)
```

```
[98]: [' ', ' ', ' ', ('C')', ' ', ('C')', ' ', ('C')']
```

```
[99]: ls = list(data)
```

```
[114]: #print([i for i in ls])
```

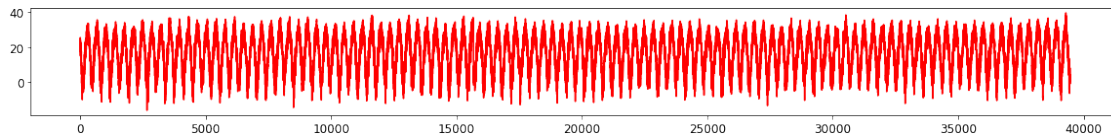
```
[115]: #print([i[-1] for i in ls]) # show_highest_temperature
```

```
[102]: highest_temperature = []
[highest_temperature.append(float(i[-1])) for i in ls if i[-1] != '']
print(f' {len(highest_temperature)} ')
```

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```
[103]: plt.figure(figsize=(20, 2))
plt.plot(highest_temperature, 'r')
```

[103]: [<matplotlib.lines.Line2D at 0x7fd178aa5160>]

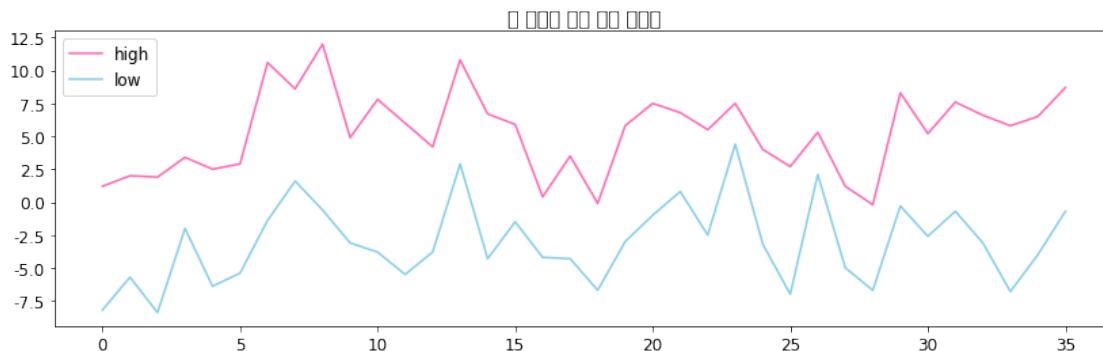


```
[104]: high = [] #
low = [] #
```

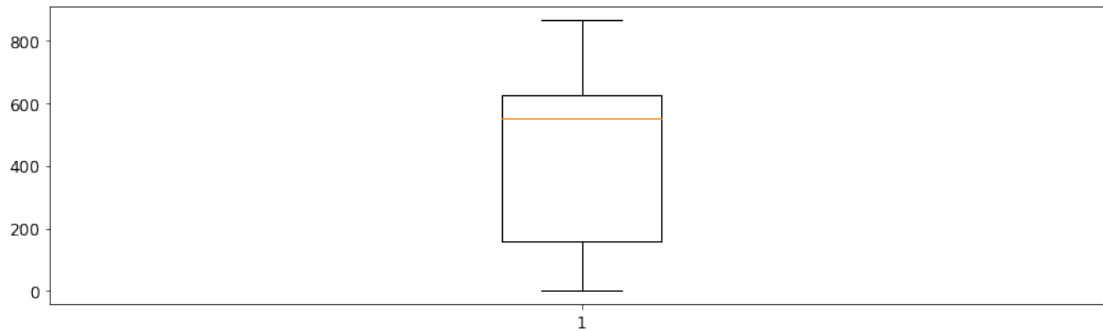
```
[105]: for i in ls:
    if i[-1] != '' and i[-2] != '':
        if 1983 <= int(i[0].split('-')[0]):
            if i[0].split('-')[1] == '02' and i[0].split('-')[2] == '14':
                high.append(float(i[-1]))
                low.append(float(i[-2]))
```

```
[106]: plt.rc('font')
plt.rcParams['axes.unicode_minus'] = False
plt.title(' ')
plt.plot(high, 'hotpink', label='high')
plt.plot(low, 'skyblue', label='low')
plt.legend()
```

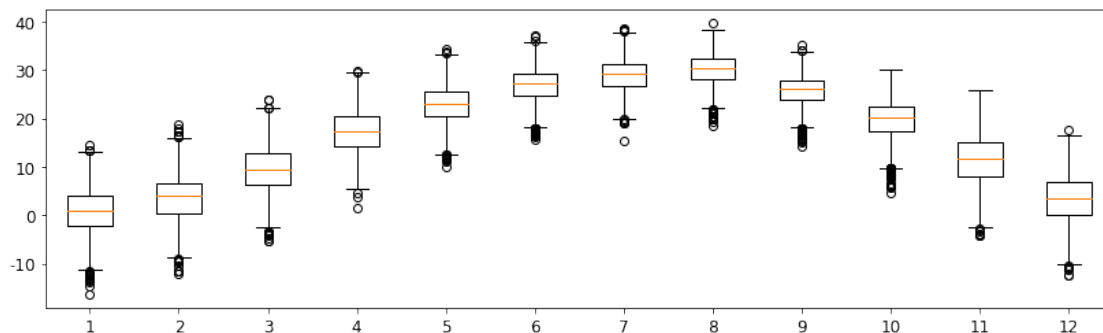
[106]: <matplotlib.legend.Legend at 0x7fd17b249e50>



```
[107]: arr = []
[arr.append(random.randint(1, 1000))for i in range(13)]
plt.boxplot(arr)
plt.show()
```

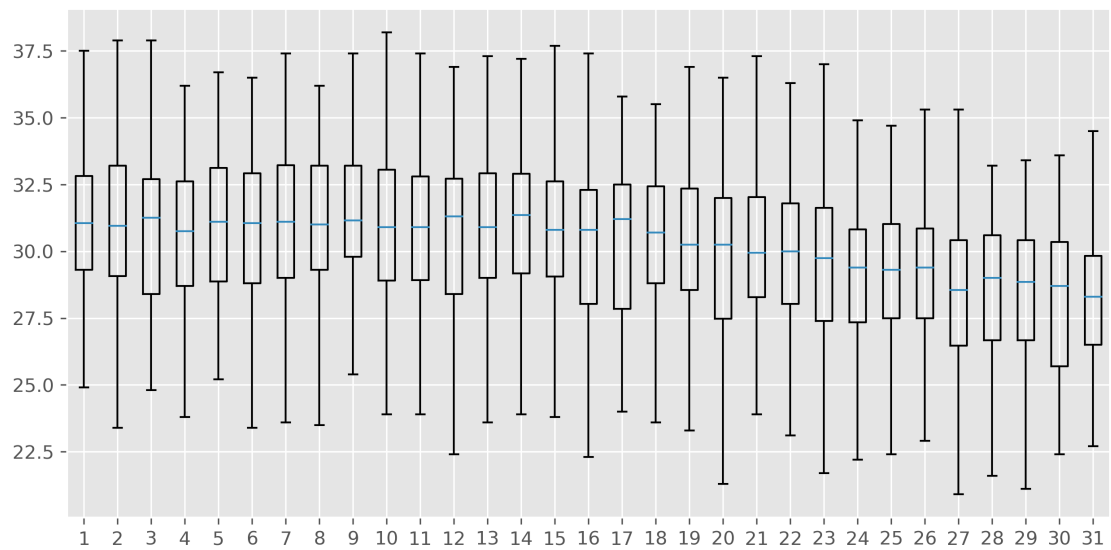


```
[110]: month = [[], [], [], [], [], [], [], [], [], [], [], []]
[month[int(i[0].split('-')[1]) - 1].append(float(i[-1])) for i in ls if i[-1] !
    ↳ = '']
plt.boxplot(month)
plt.show()
```



```
[113]: day = []
[day.append([]) for i in range(31)]
[day[int(i[0].split('-')[2]) - 1].append(float(i[-1]))
 for i in ls
 if i[-1] != ''
 if i[0].split('-')[1] == '08']
plt.style.use('ggplot') # Graph Style
plt.figure(figsize=(10, 5), dpi=300) # Graph Size
```

```
plt.boxplot(day, showfliers=False) # Omit Outlier  
plt.show()
```



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[ ]:
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