

## changed\_temperatures\_on\_my\_birthday

July 30, 2021

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

    row[ , , (C), (C), (C)]      -1

    data : [] = list()      list      data      list()      .
    ,
    data : [] = None
    def save_highest_temperatures(self):
        data = list()
    ,
    data : [] = list()
    '''
```

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

```
[110]: data = csv.reader(open('./data/unit_5_seoul.csv', encoding='cp949'))
```

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

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

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

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

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

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```
[115]: plt.plot(highest_temperatures, 'lightpink')
plt.figure(figsize=(20,2))
plt.show()
```



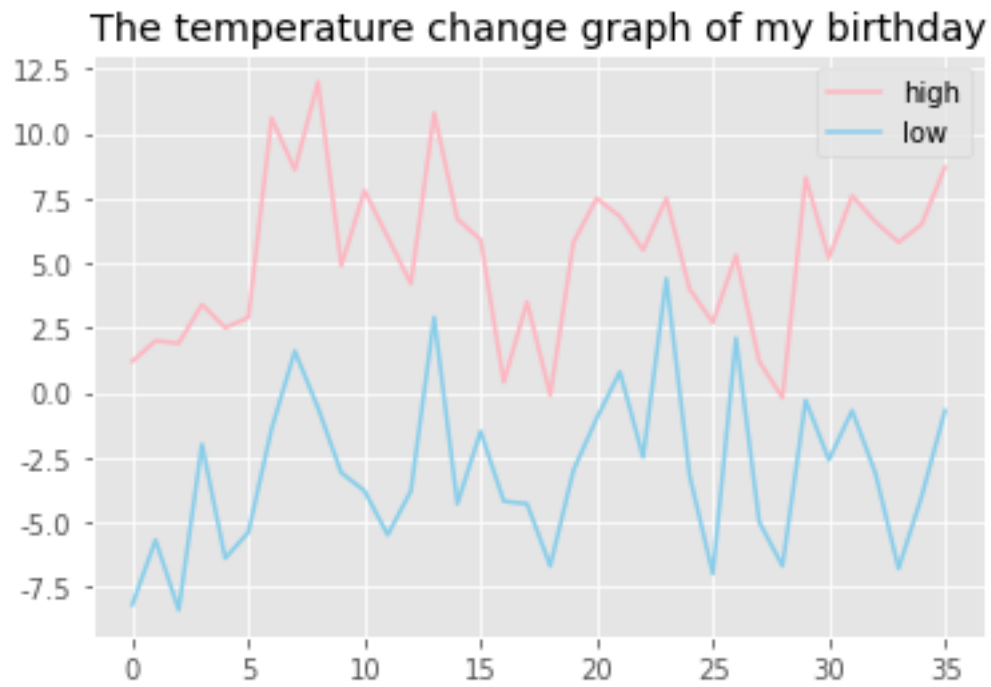
<Figure size 1440x144 with 0 Axes>

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

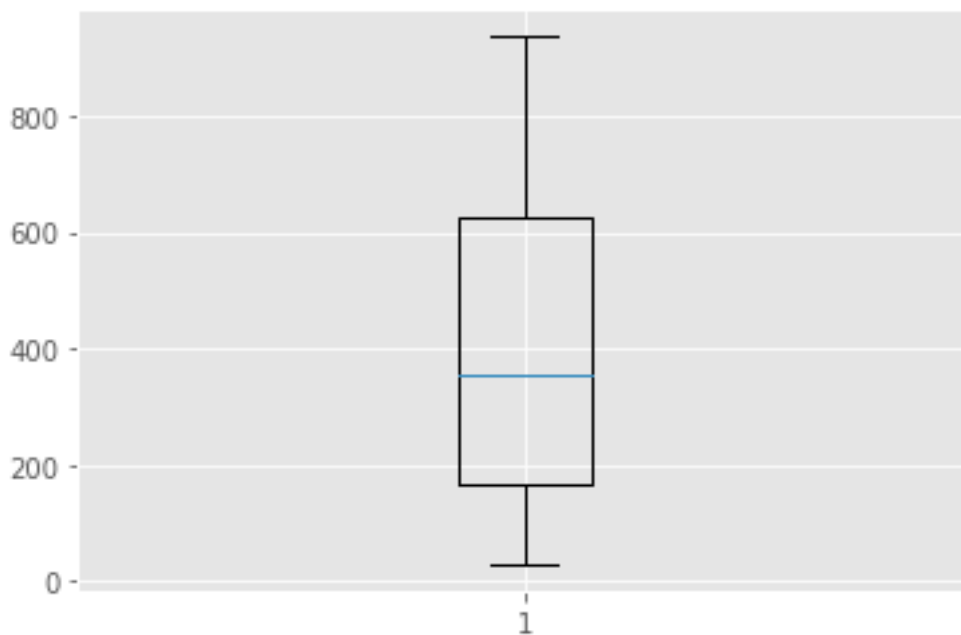
```
[117]: for i in ls:
        if i[-1] != '' and i[-2] != '':
            if 1983 <= int(i[0].split('-')[0]):
                if i[0].split('-')[1] == '02' and i[0].split('-')[2] == '14':
                    high.append(float(i[-1]))
                    low.append(float(i[-2]))
```

```
[118]: plt.rc('font', family='Malgun Gothic')
plt.rcParams['axes.unicode_minus'] = False
plt.title('The temperature change graph of my birthday')
plt.plot(high, 'lightpink', label='high')
plt.plot(low, 'skyblue', label='low')
plt.legend()
plt.show()
```

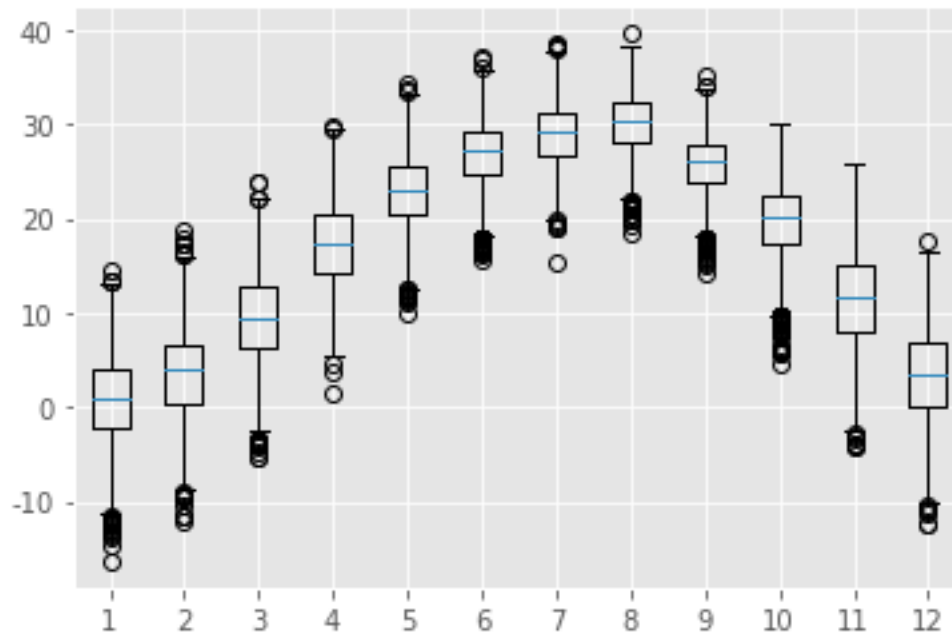
findfont: Font family ['Malgun Gothic'] not found. Falling back to DejaVu Sans.



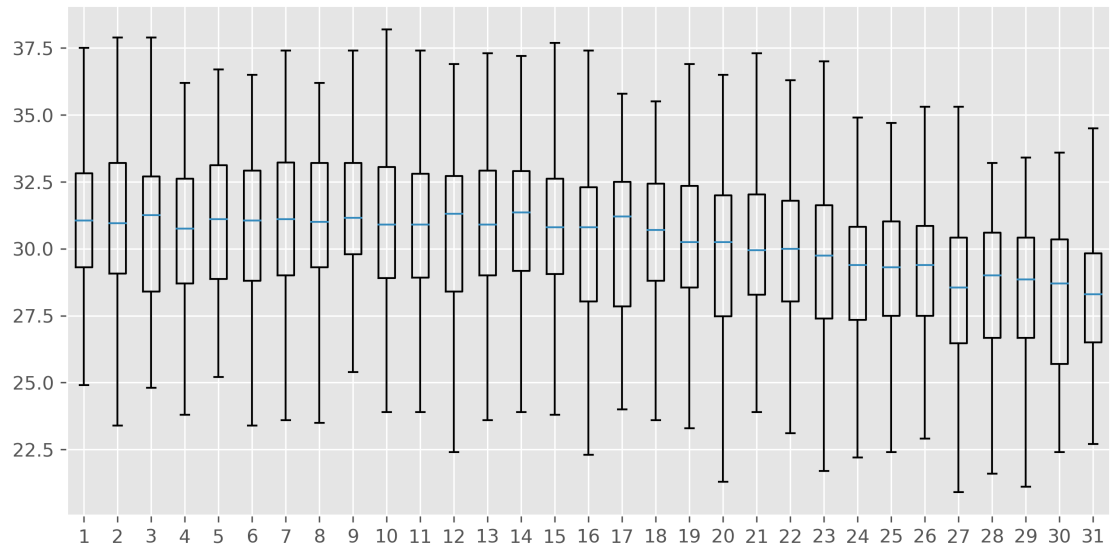
```
[119]: arr = []  
[arr.append(random.randint(1, 1000))for i in range(13)]  
plt.boxplot(arr)  
plt.show()
```



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



```
[122]: 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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