

ChangedTemperatureONMyBirthday

July 30, 2021

```
[92]: import csv
import matplotlib.pyplot as plt
```

```
[93]: '''
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()
'''
```

```
[93]: '\nnext()
.\nfunction header
.\nconsumer
data header
.\nrow[ , , (C), (C), (C)] -1
.\ndata :
[] = list() list data list()
.\n,
.
.\ndata : [] = None\n
def save_highest_temperatures(self):\n
data = list()\n
,
.
.\ndata : [] =
list()\n'
```

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

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

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

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

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

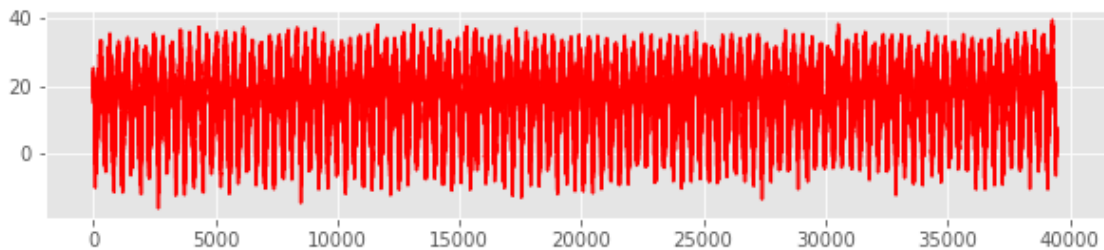
```
[98]: #print([i[-1] for i in ls]) #show_highest_temperature
```

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

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```
[100]: plt.figure(figsize=(10,2))
plt.plot(highest_temperatures,'r')
```

[100]: [<matplotlib.lines.Line2D at 0x7fb84d670670>]

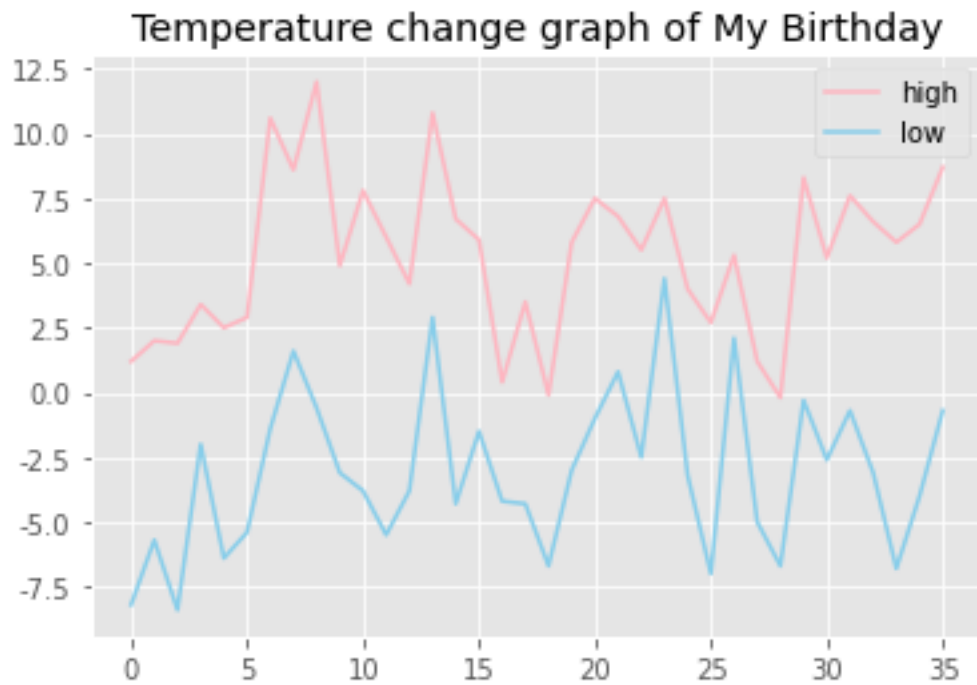


```
[101]: high = [] # highest_temperature
low = [] # lowest_temperature
```

```
[102]: 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]))
```

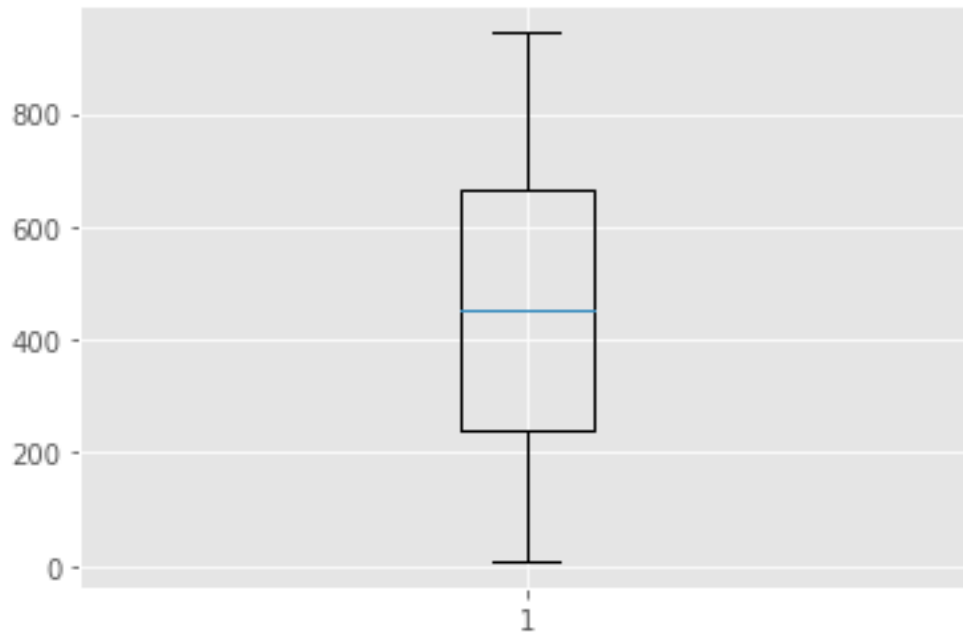
```
[109]: plt.rcParams['axes.unicode_minus'] = False
plt.title('Temperature change graph of My Birthday')
plt.rcParams['font.family'] = 'Malgun Gothic'
plt.plot(high,'lightpink', label = 'high')
plt.plot(low, 'skyblue', label = 'low')
plt.legend()
```

[109]: <matplotlib.legend.Legend at 0x7fb84c7523d0>

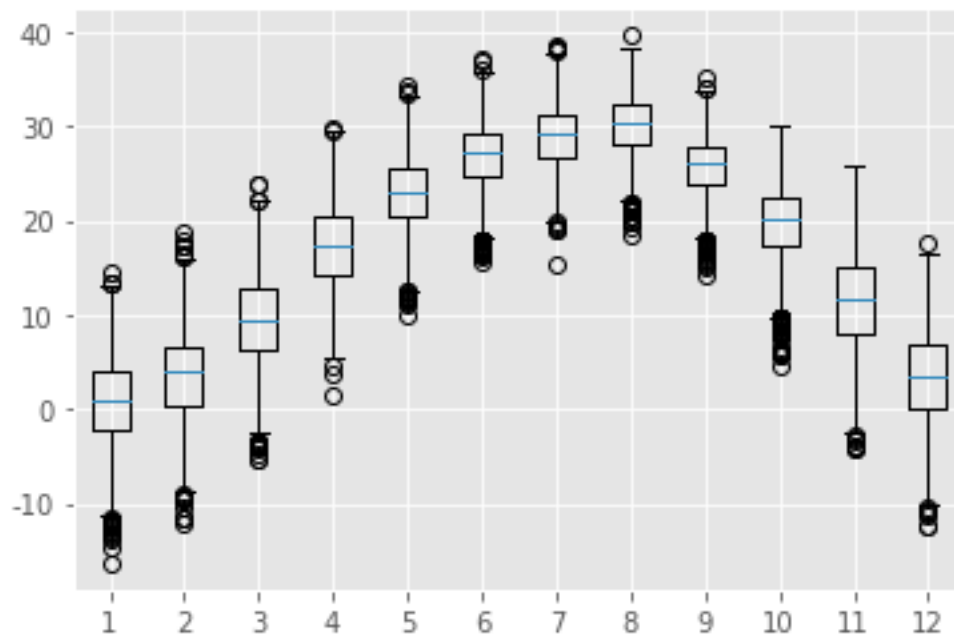


```
[110]: import random
```

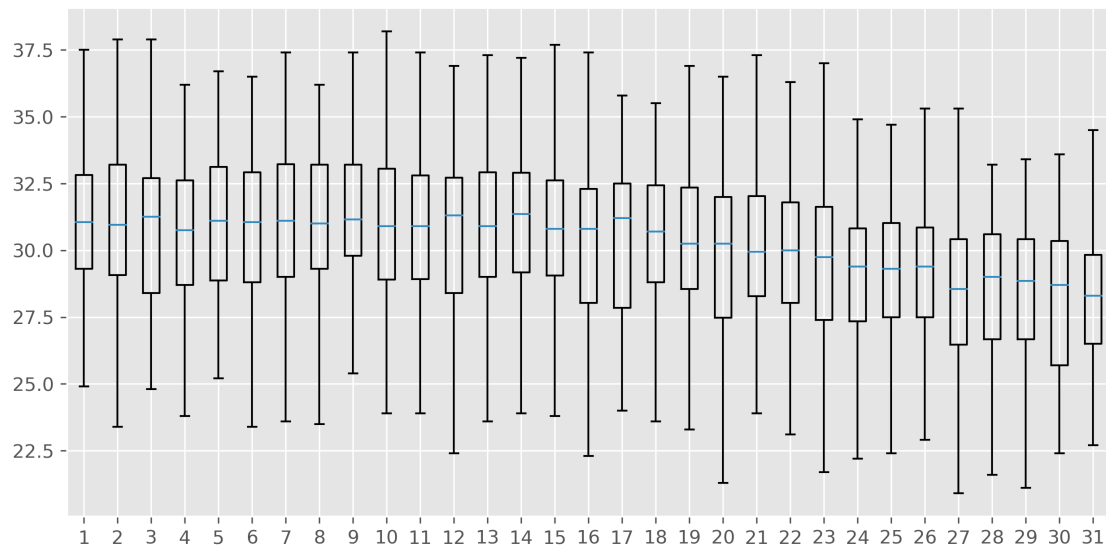
```
[111]: arr = []  
[arr.append(random.randint(1,1000))for i in range(13)]  
plt.boxplot(arr)  
plt.show()
```



```
[112]: month=[]
[month.append([]) for i in range(12)]
[month[int(i[0].split('-')[1]) - 1].append(float(i[-1])) for i in ls if i[-1] !
  ↳ '=']
plt.boxplot(month)
plt.show()
```



```
[108]: 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')
plt.figure(figsize=(10,5), dpi=300)
plt.boxplot(day, showfliers=False)
plt.show()
```



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[ ]:
```