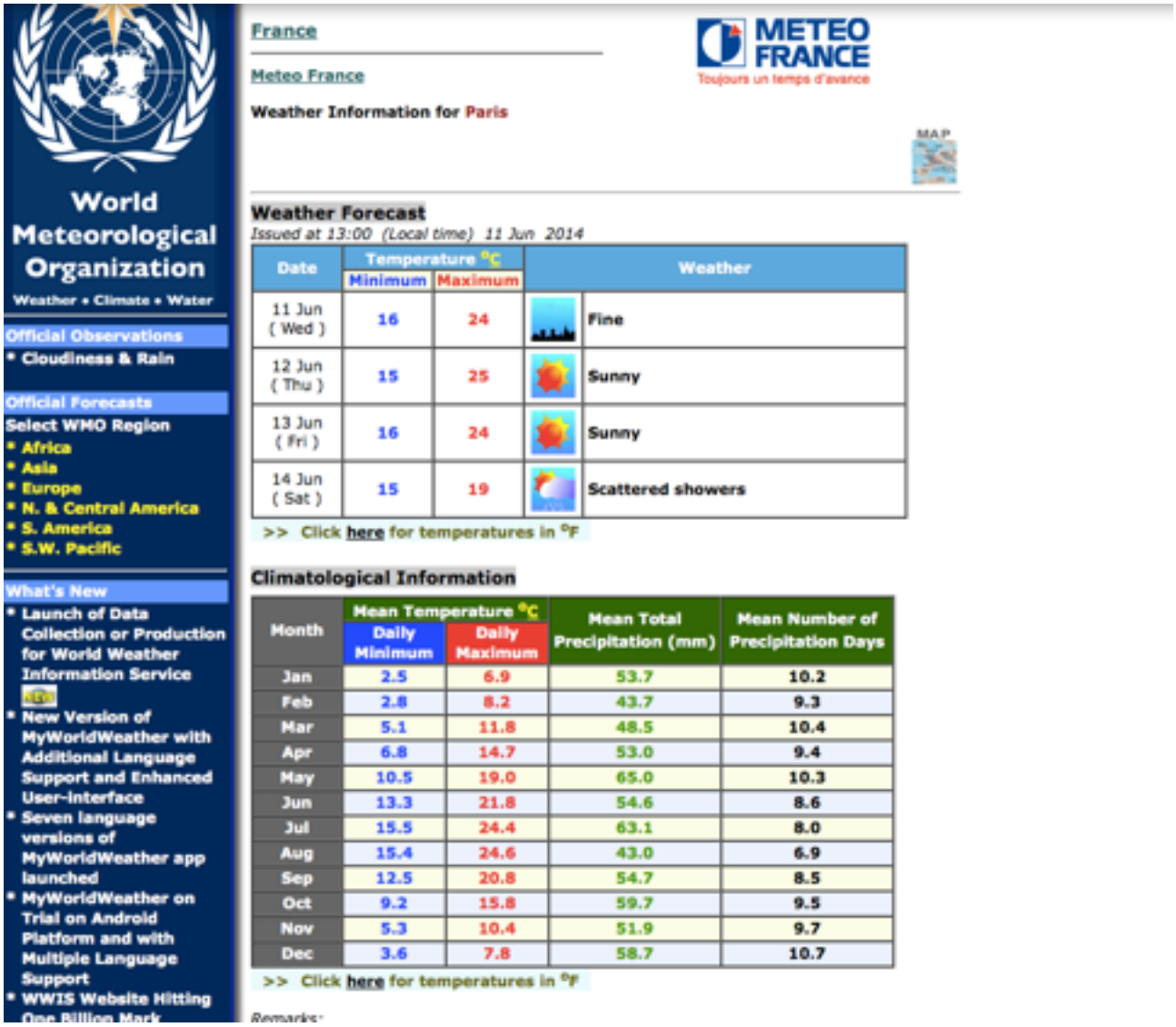
WanHong 7981

Introduction

This is project show how to read a web page content many information and gradually normalized to obtain the information what I want

I want to get the first table on this page weather information and ultimately regulate the command line display

http://www.worldweather.org/062/c00194.htm



World Meteorological Organization

Weather • Climate • Water

Official Observations
- Cloudiness & Rain

Official Forecasts

Select WMO Region
- Africa
- Asia
- Europe
- N. & Central America
- S. America
- S.W. Pacific

What's New
- Launch of Data Collection or Production for World Weather Information Service
- New Version of MyWorldWeather with Additional Language Support and Enhanced User-interface
- Seven language versions of MyWorldWeather app launched
- MyWorldWeather on Trial on Android Platform and with Multiple Language Support
- WWIS Website Hitting One Billion Mark

France

Meteo France

METEO FRANCE
Toujours un temps d'avance

Weather Information for Paris

MAP

Weather Forecast

Issued at 13:00 (Local time) 11 Jun 2014

Date	Temperature °C		Weather	
	Minimum	Maximum		
11 Jun (Wed)	16	24		Fine
12 Jun (Thu)	15	25		Sunny
13 Jun (Fri)	16	24		Sunny
14 Jun (Sat)	15	19		Scattered showers

>> Click here for temperatures in °F

Climatological Information

Month	Mean Temperature °C		Mean Total Precipitation (mm)	Mean Number of Precipitation Days
	Daily Minimum	Daily Maximum		
Jan	2.5	6.9	53.7	10.2
Feb	2.8	8.2	43.7	9.3
Mar	5.1	11.8	48.5	10.4
Apr	6.8	14.7	53.0	9.4
May	10.5	19.0	65.0	10.3
Jun	13.3	21.8	54.6	8.6
Jul	15.5	24.4	63.1	8.0
Aug	15.4	24.6	43.0	6.9
Sep	12.5	20.8	54.7	8.5
Oct	9.2	15.8	59.7	9.5
Nov	5.3	10.4	51.9	9.7
Dec	3.6	7.8	58.7	10.7

>> Click here for temperatures in °F

Remarks:

the table I want is below and I want display its in command line

Weather Forecast

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>> Click here for temperatures in °F

1/ use curl get the html page and use -o turn to weather.txt

code: curl http://www.worldweather.org/062/c00194.htm -o weather.txt

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* Cloudiness & Rain

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* WWIS Website Hitting One Billion Mark
* Poland launched Polish version
* MyWorldWeather - the mobile application of WWIS launched
* Russia launched Russian version
* Future version of WWIS launched
* Italy launched Italian version
* Germany launched German version
* France launched French version

France

Meteo France

Weather Information for Paris

Weather Forecast

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Dec	3.6	7.8	58.7	10.7

>> Click here for temperatures in °F

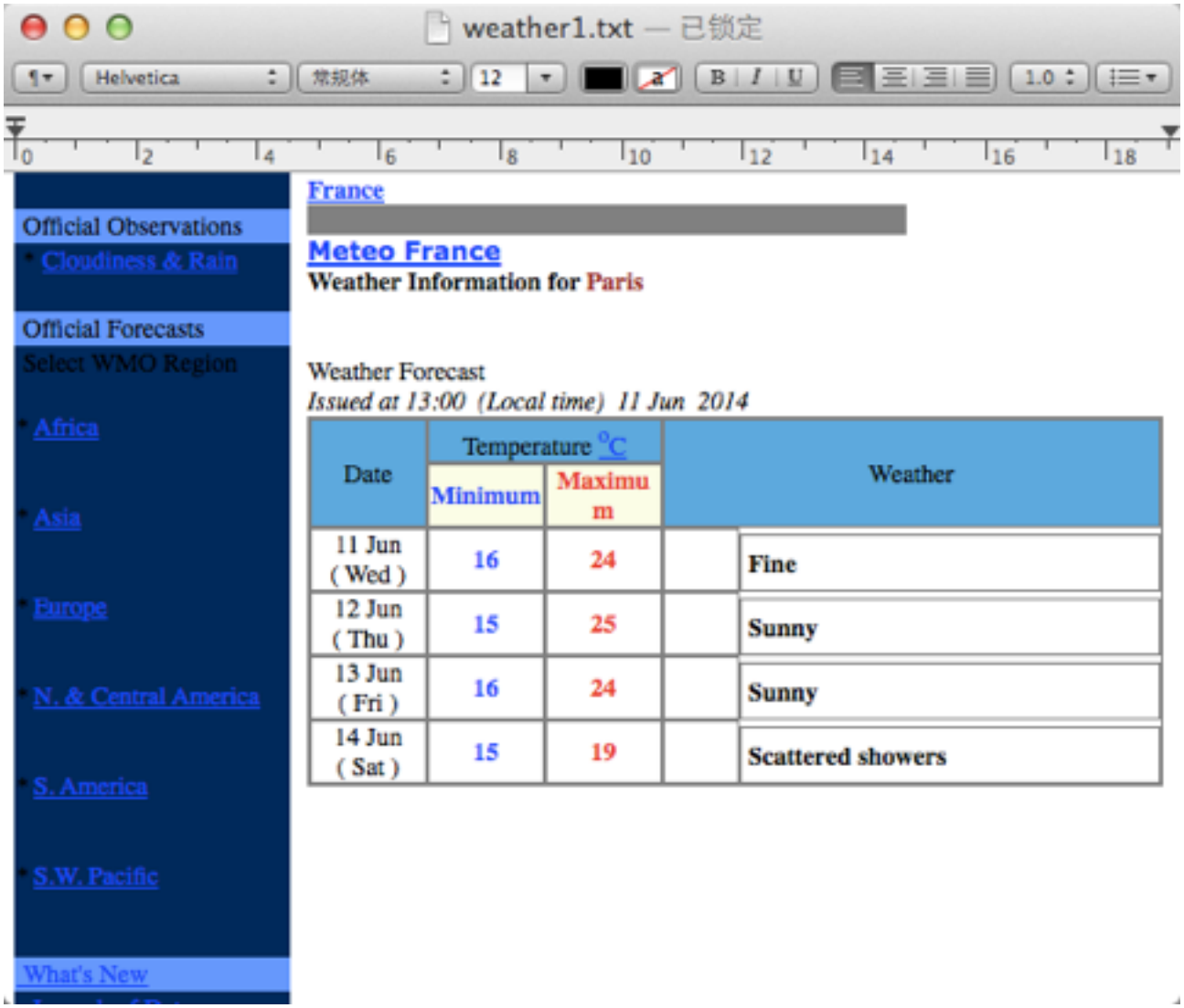
Remarks:

* *Climatological information is based on monthly averages for the 30-year period 1971-2000.*
* *Mean number of precipitation days = Mean number of days with at least 1 mm of precipitation.*
* *Precipitation includes both rain and snow.*
* *Attention: Please note that the averaging period for climatological information and the definition of*

2/ get the first 515 lines of weather.txt and write it to weather1.txt

code: head -n 515 weather.txt > weather1.txt

result:



3\ get the last 123 lines of weather1.txt and write it to weather2.txt

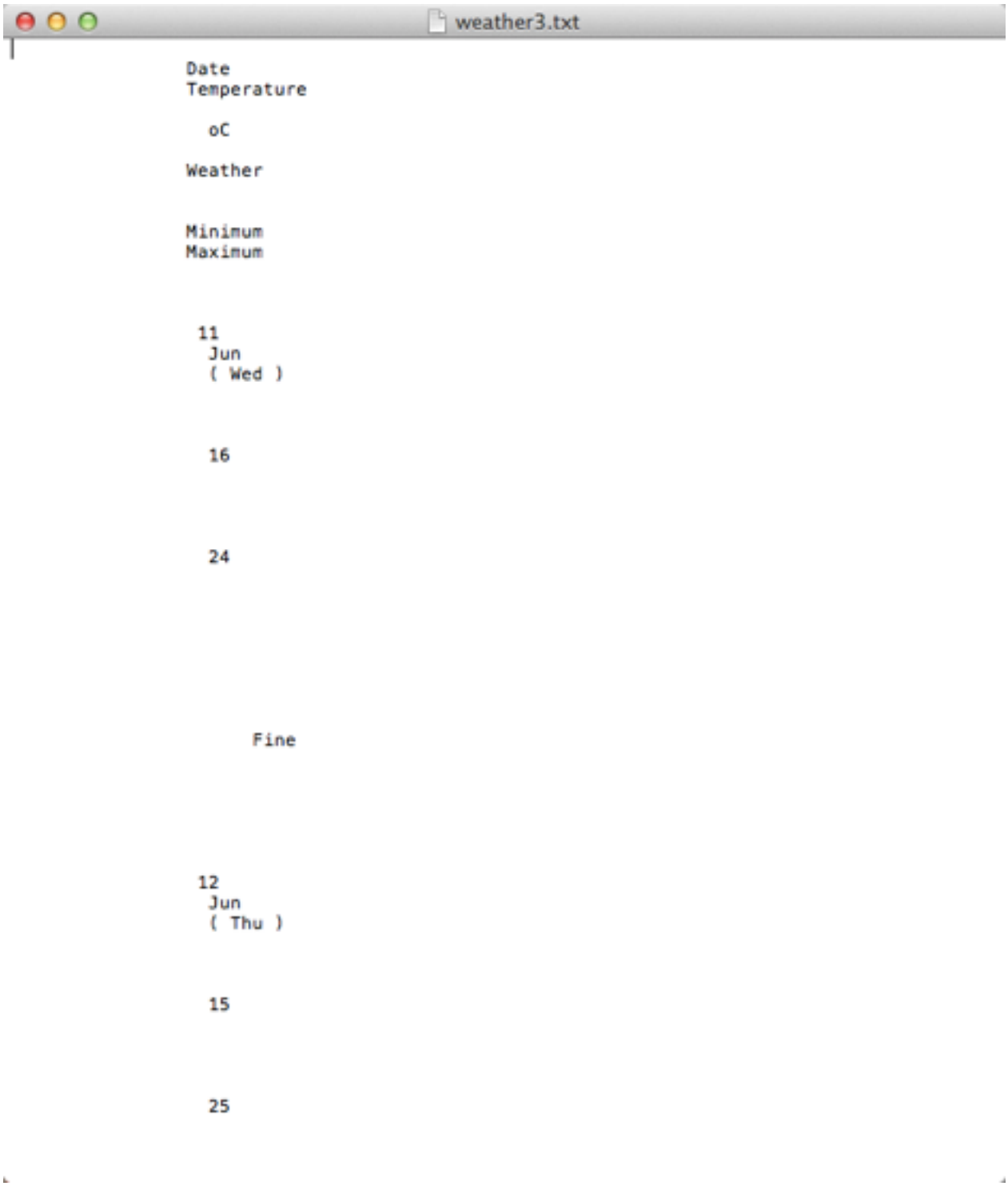
code: tail -n 123 weather1.txt > weather2.txt

weather2.txt

```
                <tr>
                  <td width="70" rowspan="2" align="center" bgcolor="#5da9dd"
class=forecast_header_new>Date</td>
                  <td width="140" colspan="2" align="center" bgcolor="#5da9dd"
class=forecast_header_new>Temperature

                    <a href="c00194f.htm#wxforecast" class="yellowlink"><sup>o</sup><u>C</
u></a></td>

                  <td colspan="2" rowspan="2" align="center" bgcolor="#5da9dd"
class=forecast_header_new>Weather</td>
                </tr>
                <tr>
                  <td width="70" align="center" bgcolor="#FBFFE6"><b><font
color="#0000FF">Minimum</font></b></td>
                  <td width="70" align="center" bgcolor="#FBFFE6"><b><font
color="#FF0000">Maximum</font></b></td>
                </tr>

                <tr>
                  <td width="70" align="center"> 11
                    Jun<br>
                    ( Wed )
                  </td>
                  <td width="70" align="center">
                    <b><font color=#0000ff>
                    16
                    </font></b>
                  </td>
                  <td width="70" align="center">
                    <b><font color=#ff3300>
                    24
                    </font></b>
                  </td>

                  <td width="45" height="45" align="center" valign="middle"><b><img src='../
img_cartoon/pic25.gif' alt="Fine" width="35" height="35"></b></td>

                  <td width="255" align="left">
                    <table width="100%" border="0" cellspacing="0" cellpadding="3">
                      <tr>
                        <td><b>Fine</b></td>
                      </tr>
                    </table>
                  </td>
                </tr>

                <tr>
                  <td width="70" align="center"> 12
                    Jun<br>
                    ( Thu )
                  </td>
                  <td width="70" align="center">
                    <b><font color=#0000ff>
                    15
                    </font></b>
```

4\ use the string method to replace all <>label to empty string of weather2.txt and write it to weather3.txt

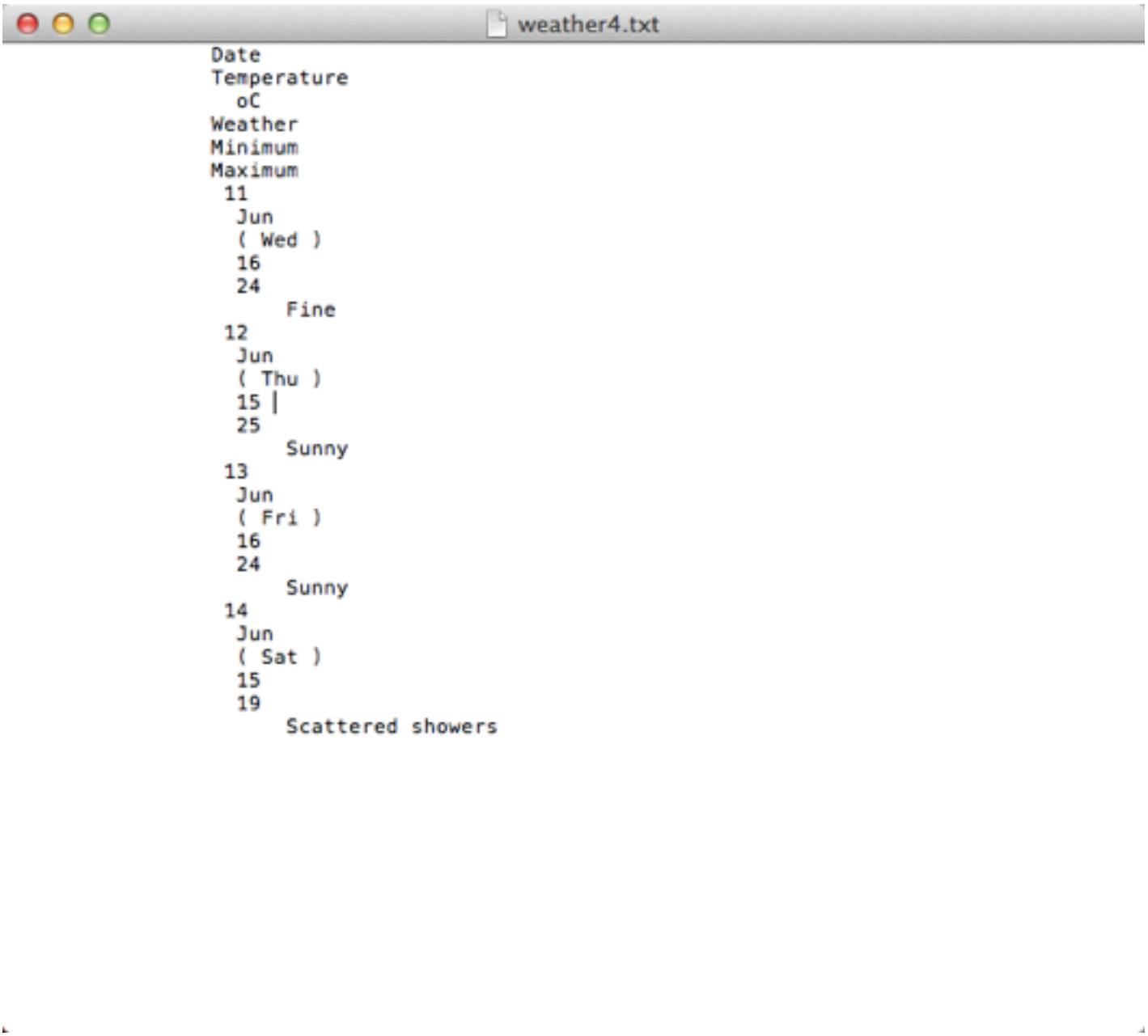
code: sed -e 's/<[^>]*>//g' weather2.txt > weather3.txt
result



5\ delete all of the blank lines of weather3.txt and write it to weather4.txt

code: sed -e '/^[[:space:]]*$/d' weather3.txt > weather4.txt

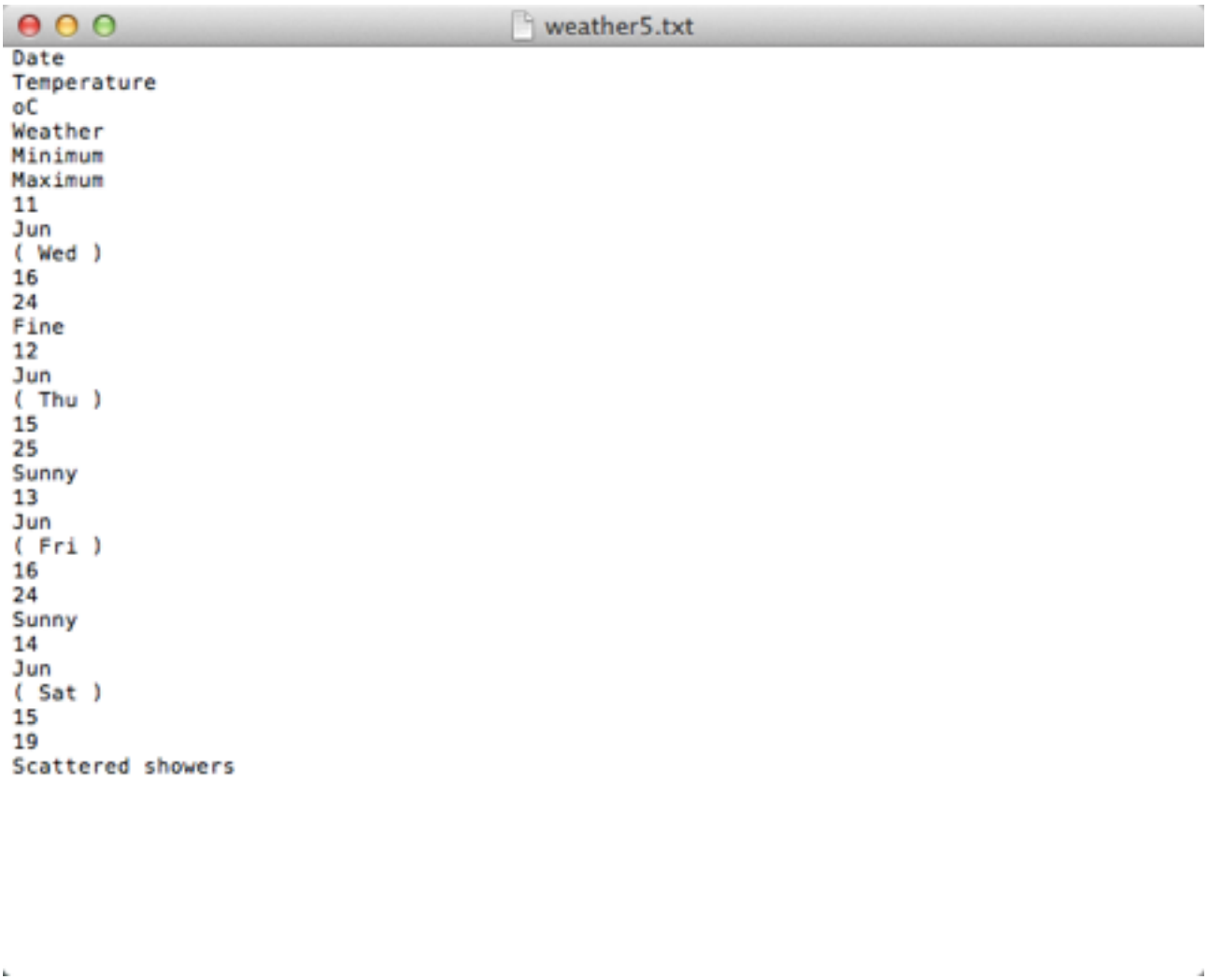
result



6\ delete all of the space at the beginning of each line of weather4.txt and write it to weather5.txt

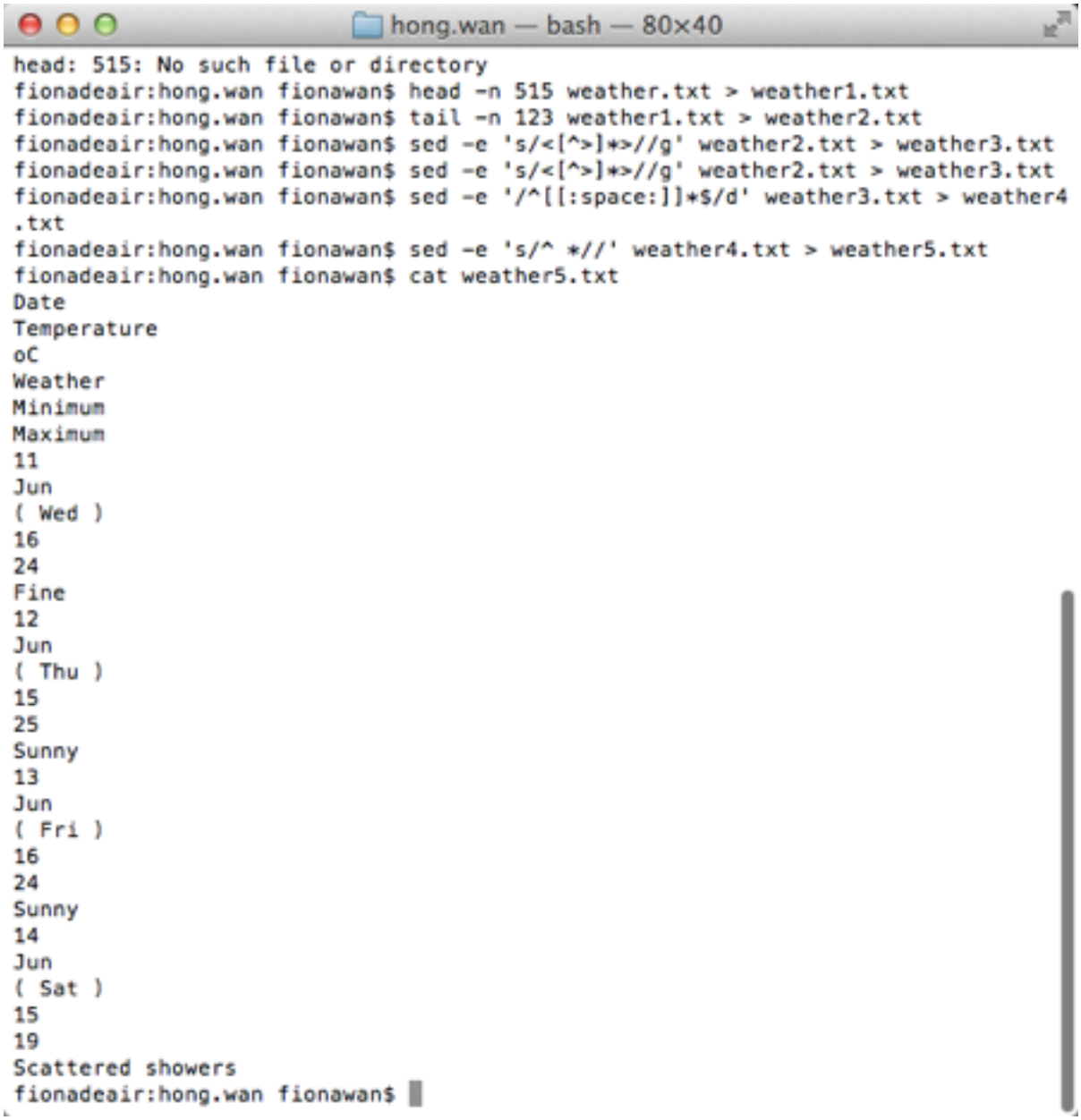
code sed –e 's/^ *//' weather4.txt > weather5.txt

result



7\show the content of weather5.txt

code cat weather5.txt
result



8\arrange the styles of weather5.txt and make it more pretty

code

```
fionadeair:hong.wan fionawan$ ls_line1=`cat weather5.txt | head -n 1`
fionadeair:hong.wan fionawan$ ls_line2=`cat weather5.txt | head -n 2 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line3=`cat weather5.txt | head -n 3 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line4=`cat weather5.txt | head -n 4 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line5=`cat weather5.txt | head -n 5 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line6=`cat weather5.txt | head -n 6 |
tail -n 1`
fionadeair:hong.wan fionawan$ echo ${ls_line1} '          ' ${ls_line2}
${ls_line3} '     ' ${ls_line4} > weather6.txt
fionadeair:hong.wan fionawan$ echo '                '${ls_line5} $
{ls_line6} >> weather6.txt
fionadeair:hong.wan fionawan$ ls_line1=`cat weather5.txt | head -n 7 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line2=`cat weather5.txt | head -n 8 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line3=`cat weather5.txt | head -n 9 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line4=`cat weather5.txt | head -n 10 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line5=`cat weather5.txt | head -n 11 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line6=`cat weather5.txt | head -n 12 |
tail -n 1`
fionadeair:hong.wan fionawan$ echo ${ls_line1} ${ls_line2}${ls_line3}'
'${ls_line4}'      '${ls_line5}'       '${ls_line6} >> weather6.txt
fionadeair:hong.wan fionawan$
fionadeair:hong.wan fionawan$ ls_line1=`cat weather5.txt | head -n 13 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line2=`cat weather5.txt | head -n 14 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line3=`cat weather5.txt | head -n 15 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line4=`cat weather5.txt | head -n 16 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line5=`cat weather5.txt | head -n 17 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line6=`cat weather5.txt | head -n 18 |
tail -n 1`
fionadeair:hong.wan fionawan$
fionadeair:hong.wan fionawan$ echo ${ls_line1} ${ls_line2}${ls_line3}'
'${ls_line4}'      '${ls_line5}'       '${ls_line6} >> weather6.txt
fionadeair:hong.wan fionawan$
fionadeair:hong.wan fionawan$ ls_line1=`cat weather5.txt | head -n 19 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line2=`cat weather5.txt | head -n 20 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line3=`cat weather5.txt | head -n 21 |
tail -n 1`
```

```
fionadeair:hong.wan fionawan$ ls_line4=`cat weather5.txt | head -n 22 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line5=`cat weather5.txt | head -n 23 |
tail -n 1`
fionadeair:hong.wan fionawan$ ls_line6=`cat weather5.txt | head -n 24 |
tail -n 1`

echo ${ls_line1} ${ls_line2}${ls_line3}'   '${ls_line4}'      '$
{ls_line5}'       '${ls_line6} >> weather6.txt

ls_line1=`cat weather5.txt | head -n 25 | tail -n 1`
ls_line2=`cat weather5.txt | head -n 26 | tail -n 1`
ls_line3=`cat weather5.txt | head -n 27 | tail -n 1`
ls_line4=`cat weather5.txt | head -n 28 | tail -n 1`
ls_line5=`cat weather5.txt | head -n 29 | tail -n 1`
ls_line6=`cat weather5.txt | head -n 30 | tail -n 1`

echo ${ls_line1} ${ls_line2}${ls_line3}'   '${ls_line4}'      '$
{ls_line5}'       '${ls_line6} >> weather6.txtfionadeair:hong.wan
fionawan$
fionadeair:hong.wan fionawan$ echo ${ls_line1} ${ls_line2}${ls_line3}'
'${ls_line4}'      '${ls_line5}'       '${ls_line6} >> weather6.txt
```

result can be put in weather6.txt

```
fionadeair:hong.wan fionawan$ cat weather6.txt\
Date            Temperature oC       Weather\
                Minimum Maximum\
29 May( Thu )   10       19         Scattered showers\
30 May( Fri )   11       21         Fine\
```