```
Problem Set 4.1

from pandas import *
from ggplot import *

def plot_weather_data(turnstile_weather):
    df = turnstile_weather
    plot = ggplot(aes('Hour', 'ENTRIESn_hourly', color = 'UNIT'), data = df)
    plot = plot + geom_line()
    return plot


Problem Set 4.2

from pandas import *
from ggplot import *

def plot_weather_data(turnstile_weather):
    pandas.options.mode.chained_assignment = None
    df = turnstile_weather
    UNIT2 = []
    for i in range(len(df['UNIT'])):
        UNIT2.append(int(df['UNIT'][i][1:5]))
    df['UNIT2'] = UNIT2
    plot = ggplot(aes('UNIT2', 'ENTRIESn_hourly', color = 'meantempi'), data = df)
    plot = plot + geom_line() + facet_wrap('Hour') + ggtitle('Entries by Unit per Hour'
) + \
    xlab('Unit') + ylab('Entries')


    return plot
```