f = open("Grid\_solar\_EV\_data.txt", "r")  
with open("Grid\_solar\_EV\_data.txt") as t:  
 n = len(t.readlines()) # 计算总行数，确定循环次数  
  
# 按行处理，将每一行的单词或数据装入列表中，再转成字符串写入txt文件中  
a = f.readline().strip()  
NY\_list = a.split()[:10] # NY的首行预处理  
AU\_list = a.split()[:1] + a.split()[10:19] # AU的首行预处理  
BO\_list = a.split()[:1] + a.split()[19:] # BO的首行预处理  
NY\_txt = str(NY\_list) + '\n'  
AU\_txt = str(AU\_list) + '\n'  
BO\_txt = str(BO\_list) + '\n'  
  
for i in range(n - 1): # 剩下n-1列，所以循环n-1次  
 a = f.readline().strip()  
 NY\_list = a.split()[:5]  
 AU\_list = a.split()[:2] + a.split()[5:8]  
 BO\_list = a.split()[:2] + a.split()[8:]  
 NY\_txt += str(NY\_list) + '\n' # 转字符串  
 AU\_txt += str(AU\_list) + '\n'  
 BO\_txt += str(BO\_list) + '\n'  
  
# 文本处理去除逗号，引号，和中括号  
NY\_txt = NY\_txt.replace("'", '').replace(',', '').replace('[', '').replace(']', '')  
AU\_txt = AU\_txt.replace("'", '').replace(',', '').replace('[', '').replace(']', '')  
BO\_txt = BO\_txt.replace("'", '').replace(',', '').replace('[', '').replace(']', '')  
  
# 打开三个txt文件写入数据  
with open("1-NY.txt", "w") as NY:  
 NY.write(NY\_txt)  
 print(NY)  
with open("1-Austin.txt", "w") as AU:  
 AU.write(AU\_txt)  
 print(AU)  
with open("1-Boulder.txt", "w") as BO:  
 BO.write(BO\_txt)  
 print(BO)  
  
# 关闭文件  
f.close()





