

#利用字符串和列表将两个通讯录文本合并为一个文本

```
def main():
    ftele1=open('TeleAddressBook.txt','rb')
    ftele2=open('EmailAddressBook.txt','rb')

    ftele1.readline() #跳过第一行
    ftele2.readline()
    lines1 = ftele1.readlines()
    lines2 = ftele2.readlines()

    list1_name = []
    list1_tele = []
    list2_name = []
    list2_email = []

    for line in lines1: #获取第一个文本中的姓名和电话信息
        elements = line.split()
        list1_name.append(str(elements[0].decode('gbk')))
        list1_tele.append(str(elements[1].decode('gbk'))) #将文本读出来的bytes转换为str类型

    for line in lines2: #获取第二个文本中的姓名和邮件信息
        elements = line.split()
        list2_name.append(str(elements[0].decode('gbk')))
        list2_email.append(str(elements[1].decode('gbk')))

    ###开始处理###
    lines = []
    lines.append('姓名\t    电话    \t    邮箱\n')

    #按索引方式遍历姓名列表1
    for i in range(len(list1_name)):
        s= ''
        if list1_name[i] in list2_name:
            j = list2_name.index(list1_name[i]) #找到姓名列表1对应列表2中的姓名索引位置
            s = '\t'.join([list1_name[i], list1_tele[i], list2_email[j]])
            s += '\n'
        else:
            s = '\t'.join([list1_name[i], list1_tele[i], str('    -----    ')])
            s += '\n'
        lines.append(s)

    #处理姓名列表2中剩余的姓名
    for i in range(len(list2_name)):
        s= ''
        if list2_name[i] not in list1_name:
            s = '\t'.join([list2_name[i], str('    -----    '), list2_email[i]])
            s += '\n'
        lines.append(s)

    ftele3 = open('AddressBook.txt', 'w')
    ftele3.writelines(lines)
    ftele3.close()
    ftele1.close()
    ftele2.close()

    print("The addressBooks are merged!")

if __name__ == "__main__":
    main()
```