#### 作业 2 线性结构及其应用

班级: 22WL022 姓名: 杨明达 学号: 2022110829

- 一、线性表的顺序存储结构(具体代码请见 SegList.c)
- 1. 删除给定元素的算法

```
PS E:\C Code\homework_2> & 'c:\Users\Administrator\.vscode\extensions\ms-vscode.cpptools-1.19.9-win32-x64\debugAdapters\bin\windowsDebugLauncher.exe''--stdin=Microsoft-MIEngine-In-bBueu8xc.sue''--stdout-Microsoft-MIEngine-Out-koliage.lwy''--stderr-Microsoft-MIEngine-Error-refipsk3.bev''--pid-Microsoft-MIEngine-Did-dp/2bts3.bev''--bbueu8xc.sue''--stdout-Microsoft-MIEngine-Error-refipsk3.bev''--pid-Microsoft-MIEngine-Pid-dp/2bts3.bev''--pid-Microsoft-MIEngine-Error-refipsk3.bev''--pid-Microsoft-MIEngine-Pid-dp/2bts3.bev''--pid-Microsoft-MIEngine-Pid-dp/2bts3.bev''--pid-Microsoft-MIEngine-Error-refipsk3.bev''--pid-Microsoft-MIEngine-Pid-dp/2bts3.bev''--pid-Microsoft-MIEngine-Error-refipsk3.bev''--pid-Microsoft-MIEngine-Pid-dp/2bts3.bev''--pid-Microsoft-MIEngine-Error-refipsk3.bev''--pid-Microsoft-MIEngine-Pid-dp/2bts3.bev''--pid-Microsoft-MIEngine-Error-refipsk3.bev''--pid-Microsoft-MIEngine-Error-refipsk3.bev''--pid-Microsoft-MIEngine-Pid-ph/2bts3.bev''--pid-Microsoft-MIEngine-Error-refipsk3.bev''--pid-Microsoft-MIEngine-Error-refipsk3.bev''--pid-Microsoft-MIEngine-Error-refipsk3.bev''--pid-Microsoft-MIEngine-Pid-ph/2bts3.bev''---pid-Microsoft-MIEngine-Error-refipsk3.bev''---pid-Microsoft-MIEngine-Pid-ph/2bts3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---pid-Microsoft-MIEngine-Pid-ph/2bts3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---bid-Microsoft-MIEngine-Pid-ph/2bts3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---bid-Microsoft-MIEngine-Error-refipsk3.bev''---bid-Microsoft-MIEngine-Error-re
```

#### 2. 对于已排好序的线性表。删除所有重复元素的算法

## 3. 线性表"就地逆置"算法

## 4. 线性表循环左移/右移 k 位的算法

## 4.1 左移

#### 4.2 右移

#### 5. 合并两个已排好序的线性表的算法

```
PS E:\C code\homework_2> & 'c:\Users\Administrator\.vscode\extensions\ms-vscode.cpptools-1.19.9-win32-x64\debugAdapters\bin\WindowsDebugLauncher.exe' '--stdin-microsoft-MIEngine-In-amt2cade_bna' '--stdout-Microsoft-MIEngine-Out-0dps45vf.q40' '--stderr-Microsoft-MIEngine-Error-2bx9qaym.pac' '--pid-Microsoft-MIEngine-Pid-rqtetvzr.bud' '--dbgExe=D:\vscode\mingw64\bin\gdb.exe' '--interpreter=mi' '--interpreter=m
```

#### 二、线性表的链式存储结构(具体代码请见 LinkList. c)

#### 1. 删除给定元素的算法

```
PS E:\C_Code\homework_2> & 'c:\Users\Administrator\.vscode\extensions\ms-vscode.cpptools-1.19.9-win32-x64\debugAdapters\bin\windowsDebugLauncher.exe' '--stdin=Microsoft-MEngine-In-nzizj1zy.zao' '--stdout-Microsoft-MEngine-Out-zwizujex.jva' '--stderr=Microsoft-MEngine-Error-3j@m5srq.vyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Error-3j@m5srq.vyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Error-3j@m5srq.vyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Error-3j@m5srq.vyy' '--pid=Microsoft-MEngine-Pld-wsjm5srd.pyy' '--pid=Microsoft-MEngine-Error-3j@m5srq.vyy' '--pid=Microsoft-MEngine-Error-3j@m5srq
```

## 2. 对于已排好序的线性表,删除所有重复元素的算法

## 3. 线性表"就地逆置"算法

#### 4. 线性表循环左移/右移 k 位的算法

#### 4.1 左移

```
PS E.1C Code Nomework 29 & "c: Users Administrator", vscode vextens ions \ms. vscode.cpptools-1.19.9-win32-xseAdebugAdapters\bin\windowsolebugLauncher.exe' '--stdine-wicrosoft-MIEngine-In-hsepkey5.uop' '--bud-wicrosoft-MIEngine-Out-rnovpheo.tjs' '--stderr-wicrosoft-MIEngine-Error-tospvafh.hqe' '--pid-wicrosoft-MIEngine-Did-obeliaro.hep' '--bud-wicrosoft-MIEngine-Error-tospvafh.hqe' '--pid-wicrosoft-MIEngine-Pid-obeliaro.hep' '--bud-wicrosoft-MIEngine-Error-tospvafh.hqe' '--pid-wicrosoft-MIEngine-Pid-obeliaro.hep' '--bud-wicrosoft-MIEngine-Error-tospvafh.hqe' '--pid-wicrosoft-MIEngine-Pid-wicrosoft-MIEngine-Error-tospvafh.hqe' '--pid-wicrosoft-MIEngine-Error-tospvafh.hqe' '--pid-wicrosoft-MIEngine-Erro
```

#### 4.2 右移

```
PS E: K. Code \homework 29 & "c: \Users\Administrator\.vscode\extensions\ms-vscode.cpptrols-1.19.9-win32-x64\debugwdapters\bin\kindowsDebugl.auncher.exe" '--stdin-witcrosoft-HIEngine-n-undhlaw3, ynw' '--stdoter\milengine-n-undhlaw3, ynw' '--stdoter\milengine
```

## 5. 合并两个已排好序的线性表的算法

```
PS E:\C Code\homework 2> & "c:\Users\Administrator\.vscode\extensions\ms-vscode.cpptools-1.19.9-win32-x64\debugAdapters\bin\kindowsDebugLauncher.exe''.--stdin-Microsoft-NIEngine-In-qbgso3n4.ie3''--stdout-Microsoft-NIEngine-Out-Idck3dek.3oa''--stderr=Microsoft-NIEngine-Error-0i1bvcpt.nmx''--pid=Microsoft-MIEngine-Pid-qzirzntd.abr''--dbgtxe=D:\vscode\mingw64\bin\gdb.exe''--interpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterpreter=mid-0ipt-nterprete
```

# 三、线性表的静态单向链表存储结构(具体代码请见 StaticList. c) 实现"就地逆置"算法