birthdaylinkedlist.c

This module create a linked list containing five *struct_birthday* elements, then output its contents to the kernel log buffer.

Getting Started

Environmental dependencies

OS: CentOS-8.1.1911-x86_64

Kernels: 4.18.0-147.5.1.el8_1.x86_64

Language: C

Please check Makefile.

My Makefile include this information.

```
# at first type on ur terminal that $(uname -r) then u will get the version..
# that is using on ur system

obj-m += <program name>.o
KDIR =/usr/src/kernels/4.18.0-147.5.1.el8_1.x86_64 //my kernel locaiton

all:
    $(MAKE) -C $(KDIR) SUBDIRS=$(PWD) modules

clean:
    rm -rf *.o *.ko *.mod.* *.symvers *.order
```

Run Steps

```
make
insmod birthdaylinkedlist.ko
dmesg
rmmod birthdaylinkedlist.ko
dmesg
```

How to check?

```
dmesg
```

Screenshots

```
[root@localhost ~]# make
make -C /usr/src/kernels/4.18.0-147.5.1.el8_1.x86_64 SUBDIRS=/root modules
make[1]: Entering directory '/usr/src/kernels/4.18.0-147.5.1.el8_1.x86_64'
  Building modules, stage 2.
  MODPOST 1 modules
WARNING: modpost: missing MODULE_LICENSE() in /root/birthdaylinkedlist.o
see include/linux/module.h for more information
make[1]: Leaving directory '/usr/src/kernels/4.18.0-147.5.1.el8_1.x86_64'
```

```
[ 3455.209611] Loading module.
[ 3455.209612] Creating list.
[ 3455.209614] NAME:Tsz Kin Lee BIRTHDAY: 1998 / 2 / 9
[ 3455.209618] NAME:Ann Mi BIRTHDAY: 1998 / 2 / 9
[ 3455.209618] NAME:Andy Lau BIRTHDAY: 1978 / 9 / 3
[ 3455.209619] NAME:Judy Chan BIRTHDAY: 1990 / 3 / 15
[ 3455.209619] NAME:Cheng Chi BIRTHDAY: 1996 / 5 / 4
[root@localhost ~]#
```

```
[ 3479.025800] Removing module.
[ 3479.025817] Removing Birthday [NAME:Tsz Kin Lee Birthday: 2 / 9 / 1998]
[ 3479.025818] Removing Birthday [NAME:Ann Mi Birthday: 2 / 9 / 1998]
[ 3479.025819] Removing Birthday [NAME:Andy Lau Birthday: 9 / 3 / 1978]
[ 3479.025820] Removing Birthday [NAME:Judy Chan Birthday: 3 / 15 / 1990]
[ 3479.025820] Removing Birthday [NAME:Cheng Chi Birthday: 5 / 4 / 1996]
```

How to contact me?

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