final
file operations

read src 1
read src 2

write dst

buffer 1
buffer 2

open, read, write, close files in final lab exam

Know how to open close file
link list a struct
one holds an int
another holds a ptr
while ptr ≠ 0
next ptr

STRUC Node
val: resd 1
next: resd 1
ENDSTRUC

head → Node val = 5
next = 0

add → temp → val = 4
next = ?

? = head then
head = temp

pop → temp = val=9
next = node

head = next
deallocate temp

Section 1 1.) Convert demical to bin to hex
must show all bits
2.) Addition / Subtraction in binary
answer in binary and hex
may be two negative value

Layout of memory
5 section of them
names and what they used for

instructions to assemble
link
execute
debug

CPU 3 instructions fetch
decode
execute

4 general register eax, ebx, ecx, edx
the common use

esi edi ebp esp

know the asm instructions
mov
movsz

label
dereference label

string operations
scasb
lodsb
stosb
involve what registers
how to process

sign extend
eax to edx if signed
or clear edx if unsigned
for division

xor to zero out register

jump based on flags

3 size 4 register

8	16	32
AL / AH	AX	EAX

shift operations
carry flag

Caller preserved registers
Callee preserved registers

write a program
flow control
maybe if or while or switch