#1. An initialized internal static variable has local scope/visibility to the __________________________ in
which it is defined but is stored in the ___________ segment and therefore the lifetime/duration of this variable
is the lifetime of the ________________________.

An uninitialized external static variable has local scope/visibility to the __________________________ in
which it is defined but is stored in the ___________ segment and therefore the lifetime/duration of this variable
is the lifetime of the ________________________.

Takes .c files as input and expands any #defines/#includes and strips away comments  __________________

Generates machine code from assembly language  _______________________

When a function is declared to be static, it’s scope/visibility is ________________________________ .

Takes .o files as input and produces an executable file  __________________

Copies executable binaries from disk to memory and starts the execution of the program  _______________

#2. List 2 ways/events which would cause a full context switch to occur (switching out the entire user process from
the CPU and running a completely different user process that is ready to run).
#3. Why is the relative displacement value stored in a call or branch instruction in the SPARC architecture the number of instructions away from the current value of the PC as opposed to the number of bytes away from the current value of the PC as it is in some other architectures?

#4. Order by general storage size/capacity the following data storage types. [1 is largest, 6 is smallest]

registers ______

L2 cache______

SASD ______ (Sequential Access Storage Device -- e.g., tape drive)

L1 cache______

DASD ______ (Dynamic Access Storage Device -- e.g., disk drive)

RAM______ (Random Access Memory -- e.g., main memory)

What question would you most like to see on the Final Exam?