#1. An initialized 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 ________________________.

_______________ cache data is only written to main memory when it is forced out of the cache.

When a function is declared without the keyword static, its scope/visibility is __________________________.

The keyword to turn off optimizations that may be applied to a variable is _______________________

_______________ linking copies each library routine called directly into the program’s resulting executable.

An uninitialized local variable has local scope/visibility to the ___________________________ in
which it is defined and is stored in the _________________ and therefore the lifetime/duration of this variable
is the lifetime of the ________________________.

#2. What are the two main ways/conditions that will cause a full context/process switch?

________________________ ________

#3. This type of I/O uses regular instructions to perform I/O and not any special I/O instructions.

________________________

(over)
Given the following program, reorder the printf lines so that the values that are printed are sorted from smallest to largest if compiled and run on a Sun SPARC architecture. These lines print out the address of the different parts of the program (not the values assigned).

```c
int a;

int main( int argc, char *argv[] ) {
    static int b = 42024;
    int c = 420;
    /* 1 */ (void) printf( "malloc --> %p\n", malloc(404) );
    /* 2 */ (void) printf( "argc --> %p\n", &argc );
    /* 3 */ (void) printf( "a --> %p\n", &a );
    /* 4 */ (void) printf( "c --> %p\n", &c );
    /* 5 */ (void) printf( "b --> %p\n", &b );
    /* 6 */ (void) printf( "main --> %p\n", main );
}
```

This line number would print the smallest value

This line number would print the largest value

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