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

An uninitialized global variable has scope/visibility to the ________________ in which it is defined and is stored in the _____________ segment and therefore the lifetime/duration of this variable is the lifetime of the ________________________.

______________ is the keyword to denote a variable/function declaration. The real definition is expected to be found in another source module.

____________________ linking usually results in larger executables.

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

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

#2. What are the two main functions of the linkage editor?

1)

2)

(over)
#3. 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 c;

int main( int argc, char *argv[] ) {
    int b = 42024;
    static int a = 420;

    /* 1 */ (void) printf( "malloc --> %p\n", malloc(50) );
    /* 2 */ (void) printf( "argc --> %p\n", &argc );
    /* 3 */ (void) printf( "main --> %p\n", main );
    /* 4 */ (void) printf( "c --> %p\n", &c );
    /* 5 */ (void) printf( "b --> %p\n", &b );
    /* 6 */ (void) printf( "a --> %p\n", &a );
}
```

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?