Use these words (and possibly a combination of these words) to answer #1. May be used more than once.

1. An initialized 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 _______________________.

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 _______________________.

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

When a function is declared to be static, its scope/visibility is _______________________________.

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

____________ linking makes it easier to update compiled programs with newer versions of libraries.

2. What are the two main types of cache write policies?

_________________________  ______________________

3. Which of these ensures the data copy in the cache is the same as that in main memory?

_________________________
#4. 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[] ) {
    int b = 42024;
    static int c = 420;

    /* 1 */ (void) printf( "a --> %p\n", &a );
    /* 2 */ (void) printf( "b --> %p\n", &b );
    /* 3 */ (void) printf( "c --> %p\n", &c );
    /* 4 */ (void) printf( "argc --> %p\n", &argc );
    /* 5 */ (void) printf( "main --> %p\n", main );
    /* 6 */ (void) printf( "malloc --> %p\n", malloc(505) );
}
```

___________ 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?