

University of Windsor

COMP-1410 - Fall 2023 School of Computer Science

5. Describe the problems with the following code fragments.

(a)

```
int x = 0;
int * y = &x;
int ** z = &y;
printf("%p\n", **z);
```

(b)

```
int * x = NULL;
int y = &x;
```

(c)

```
int x[] = {1, 2, 3};
int y[3] = {0};
x = y;
*x = *y;
```

6. What are the functions in the call stack (from top to bottom) **immediately before the first time line 7 runs** if `fib(4)` is called from `main` in the following code fragment?

```
1 int fib(int n) {
2   if (n <= 1) {
3     return n;
4   }
5   int F_nsub1 = fib(n - 1);
6   int F_nsub2 = fib(n - 2);
7   return F_nsub1 + F_nsub2;
8 }
```

7. If `a` is an array containing 5 ints then what is `a+1`?