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COEN 171
Quiz 5

1)   void printArgs(int numArgs, char* args[]) {
                for(int i=0; i<numArgs; i++)
                        printf(args[i]);
        }

2)   void func1(void (*f)()) {
                f();
        }
        void func2() {
                printf("Hello, world! I'm inside func1");
        }

3)   func1(&func2);

4)   int func(int a, int b){
                int c=a+b;

                return c;

        }

a
b
c
bl caller

5)   int fib(int n){
                if n<2 return n;

                else return fib(n-1)+fib(n-2)

        }
        fib(4)

fib		n=4	
		bl caller	Return value: 3
fib		n=3	
		bl fib	Return value: 2
fib		n=2	
		bl fib	Return value: 1

fib	n=1	
	bl fib	Return value: 1
fib	n=0	
	bl fib	Return value: 0
fib	n=1	
	bl fib	Return value: 1
fib	n=2	
	bl fib	Return value: 1
fib	n=1	
	bl fib	Return value: 1
fib	n=0	
	bl fib	Return value: 0

6)

```
fib_tail(int n, int a, int b){ //fib_tail(4, 1, 0);
        if(n==0) return b;
        else fib(n-1, a+b, a);
        //more elegant: return n== 0 ? b : fib(n-1, a+b, a);
}
```

7)

fib_tail	n=4	
	a=1	
	b=0	
	Bl caller	
fib_tail	n=3	
	a=1	
	b=1	
	bl fib_tail	
fib_tail	n=2	
	a=2	
	b=1	
	bl fib_tail	
fib_tail	n=1	
	a=3	
	b=2	
	bl fib_tail	

fib_tail	n=0	
	a=5	
	b=3	
	bl fib_tail	Return value: 3