

## CS 314 FINAL REVIEW — RECURSIVE CODE TRACING

1. What is output by the call `a(25)`?

```
public static void a(int x){
    if(x == 0){
        System.out.print(x + " ");
    }
    else{
        a(x / -2);
        System.out.print(x + " ");
    }
}
```

2. What is output by the call `b(-1)`?

```
public static void b(int y){
    if(y > 10)
        System.out.print(" DONE! ");
    b(y + 2);
    System.out.print(y + " ");
}
```

3. What is returned by `c(7)`?

```
public static int c(int z){
    if (z <= 1)
        return z;
    int result = z;
    result += c(z - 1);
    result -= c(z - 2);
    return result;
}
```