Worksheet #16:
Critical Path Length for Computation with Signal Statement

Name: _____   **Netid:** _____

Compute the WORK and CPL values for the program shown below. How would they be different if the signal() statement was removed? (Hint: draw a computation graph as in slide 11)

```
1.finish(() -> {
2.   final HjPhaser ph = newPhaser(SIG_WAIT);
3.   asyncPhased(ph.inMode(SIG_WAIT), () -> { // Task T1
4.     A(0); doWork(1);    // Shared work in phase 0
5.     signal();
6.     B(0); doWork(100); // Local work in phase 0
7.     next(); // Wait for T2 to complete shared work in phase 0
8.     C(0); doWork(1);
9.   });
10.   asyncPhased(ph.inMode(SIG_WAIT), () -> { // Task T2
11.     A(1); doWork(1);    // Shared work in phase 0
12.     next(); // Wait for T1 to complete shared work in phase 0
13.     C(1); doWork(1);
14.     D(1); doWork(100); // Local work in phase 0
15.   });
16.}); // finish
```