Consider a three-stage pipeline of actors (as in slide 5), set up so that P0.nextStage = P1, P1.nextStage = P2, and P2.nextStage = null. The process() method for each actor is shown below. Assume that 100 non-null messages are sent to actor P0 after all three actors are started, followed by a null message. What will the total WORK and CPL be for this execution? Recall that each actor has a sequential thread.

```java
protected void process(final Object msg) {
    if (msg == null) {
        exit();
    } else {
        doWork(1); // unit work
    }
    if (nextStage != null) {
        nextStage.send(msg);
    }
}
```

Input sequence

```
... d9d8d7d6d5d4d3d2d1d0  P0 | P1 | P2
```

Worksheet #29:
Analyzing Parallelism in an Actor Pipeline