Worksheet #21a: Abstract Metrics with Isolated Constructs

Name:	Netid:
-------	--------

Compute the WORK and CPL metrics for this program with a <u>global isolated</u> construct. Indicate if your answer depends on the execution order of isolated constructs. Since there may be multiple possible computation graphs (based on serialization edges), try and pick the worst-case CPL value across all computation graphs.



Worksheet #21b: Abstract Metrics with Object-based Isolated Constructs

Compute the WORK and CPL metrics for this program with an <u>object-based isolated</u> construct. Indicate if your answer depends on the execution order of isolated constructs. Since there may be multiple possible computation graphs (based on serialization edges), try and pick the worst-case CPL value across all computation graphs.

```
finish(() -> {
          // Assume X is an array of distinct objects
3.
          for (int i = 0; i < 5; i++) {
             async(() -> {
5.
               doWork(2);
6.
               isolated(X[i], X[i+1],
7.
                        () -> { doWork(1); });
8.
               doWork(2);
             }); // async
|10.
           } // for
       }); // finish
11.
```

