Worksheet: Abstract Metrics with Object-based Isolated Constructs

Compute the WORK and CPL 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.

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

Answer: WORK = 25, CPL = 7.