Worksheet #34: impact of distribution on parallel completion time (rather than locality)

Name: _____ Net ID: _____

```
1.  public void sampleKernel(
2.      int iterations, int numChunks, Distribution dist) {
3.    for (int iter = 0; iter < iterations; iter++) {
4.      finish(() -> {
5.        forseq (0, numChunks - 1, (jj) -> {
6.          asyncAt(dist.get(jj), () -> {
7.            doWork(jj);
8.            // Assume that time to process chunk jj = jj units
9.         });
10.       });
11.     });
12.   } // for iter
13. } // sample kernel
```

- Assume an execution with n places, each place with one worker thread
- Will a block or cyclic distribution for dist have a smaller abstract completion time, assuming that all tasks on the same place are serialized with one worker per place?