Worksheet: impact of distribution on parallel completion time

1. public void sampleKernel(
2.   int iterations, int numChunks, Distribution dist) {
3.   for (int iter = 0; iter < iterations; iter++) {
4.     finish(() -> {
5.       for (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?