Worksheet #32: impact of distribution on parallel completion time (rather than locality)

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

