☐ Plant	
- peeler: Worker	
- juicer: Worker	
- bottler: Worker	
- orangesProvided: int	
- orangesProcessed: in	nt
- startPlant(): void	
- stopPlant(): void	
- waitToStop(): void	
- run(): void	
- getProvidedOranges	(): int
- getProcessedOrange	es(): int
- getBottles(): int	
- getWaste(): int	

Worker	☐ Orange
startWorker(): void	- state: State
stopWorker(): void	- getState(): State
waitToStop(): void	- runProcess(): void
run(): void	- doWork(): void
get(Orange o, Queue w): void	- Orange():

Brief Description:

- The Plant classes are very similar to those given in class, but now include instances of the Worker class (3 Workers per Plant)
- The Plant instances each contain 4 LinkedBlockingQueues, one for each State of the Orange class
- Each Worker has 2 LinkedBlockingQueues, one for the Oranges that need to be processed and another for the Oranges that have been processed
- Each Worker extends the Runnable Object type, so when we have multiple Plants running, we have at least 8 threads running simultaneously
- Each Worker handles a different task, only running one process of each Orange (each Plant gets a peeler, juicer, and bottler for our task parallelization)
- At the end of the simulation, the statistics show that we can have more than 3 wasted oranges, meaning that juice from one Plant is not being used in another (showing our data parallelization)