CompletionService Interface

This lesson talks about how to batch multiple tasks together

CompletionService Interface

In the previous lesson we discussed how tasks can be submitted to executors but imagine a scenario where you want to submit hundreds or thousands of tasks. You'll retrieve the future objects returned from the submit calls and then poll all of them in a loop to check which one is done and then take appropriate action. Java offers a better way to address this use case through the **CompletionService** interface. You can use the **ExecutorCompletionService** as a concrete implementation of the interface.

The completion service is a combination of a blocking queue and an executor. Tasks are submitted to the queue and then the queue can be polled for completed tasks. The service exposes two methods, one poll which returns null if no task is completed or none were submitted and two take which blocks till a completed task is available.

Below is an example program that demonstrates the use of completion service.

