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Distributed and Parallel Computing + Extended
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The University of Birmingham
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Exercise 02 - Java Queueing

This exercise is to start programming with Java Threads. Review the slides from the latest version of the `n04_Java...` slide deck. A Java file `MainBQ1.java`, based on the first buggiest version of the queueing code discussed in that lecture has been uploaded to Canvas. Download it and set up a project based on it in your IDE of choice. Run it a few times and try to explain to yourself exactly what symptoms of errors you are getting and why. Play with the number of enqueuer and dequeuer threads and with the number of messages that each thread enqueues/dequeues and make sure you understand all the symptoms you get.

Next make a copy of this file into a new project MainBQ2, and do the first correction from the slide deck and again understand the resulting symptoms of errors. Continue until you have a fully working and bug free version.

Experiment with using the debugger in your IDE to singlestep through your thread code: use Google for advice on how to do this for your IDE.