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I think that my degree of success with the project is about 100. It is expected that the program would be deadlocked sometimes.

At each queue size, I have the system of 30 producer and 50 consumers running 100 times. As my observation, the 50% deadlock seems to be at queue size of 600.

At fix queue size of 600 and the same number of consumers and producers, I was trying to figure out the deadlock probabilities with respect to different numbers of dozens of donuts each consumer must consume (100, 150, 250, and 300).

To build the program, open a terminal window, navigate to the project's directory, run "make" command.

To compile, navigate to the directory containing the source file then run the following command:

make

To test the project, navigate to the directory containing the executable file and the file “loop.sh”, then run the following commands:

loop.sh 1

Check out directory “consumer\_output” for output files.