

## **Producer**

This program creates the print jobs and adds them to the queue. To run it, navigate to its directory and run the command :

**Cc Producer.c -o Producer**

Once the compilation is complete, run the following command :

**./Producer {numberOfJobsToCreate} {QueueLength}**

Both of the command line arguments are optional, if no arguments are entered, **{numberOfJobsToCreate}** will default to 1, and **{QueueLength}** will be read from storedQueueLength.txt. If you enter a value for **{QueueLength}** every job currently in the queue will be destroyed, the queue length will be changed and storedQueueLength.txt will be updated.

## **Consumer**

This destroys the process that is referenced in the queue, then deletes the element in the queue. To run it, navigate to its directory and run the command :

**Cc Consumer.c -o Consumer**

Once the compilation is complete, run the following command :

**./Consumer {numberOfJobsToDestroy}**

Both of the command line arguments are optional, if no arguments are entered, **{numberOfJobsToDestroy}** will default to 1. If you enter a value for **{numberOfJobsToDestroy}**, that many jobs will have their process killed and be deleted from the queue.