## prk19@vm-shell1:~/Operating\_Systems/CW1 \$ make

g++ -Wall -Wextra -c -g helper.cc main.cc

g++ -Wall -Wextra -pthread -o main helper.o main.o

## prk19@vm-shell1:~/Operating\_Systems/CW1 \$ ./main 5 6 2 3

Producer(1): Job id 1 duration 8

Consumer(3): Job id 1 executing sleep duration 8

Producer(1): Job id 2 duration 4

Consumer(1): Job id 2 executing sleep duration 4

Producer(2): Job id 3 duration 7

Consumer(2): Job id 3 executing sleep duration 7

Producer(1): Job id 4 duration 10 Producer(1): Job id 5 duration 3

Producer(2): Job id 1 duration 1 Consumer(1): Job id 2 completed

Consumer(1): Job id 4 executing sleep duration 10

Producer(1): Job id 2 duration 4 Consumer(3): Job id 1 completed

Consumer(3): Job id 5 executing sleep duration 3

Consumer(2): Job id 3 completed

Consumer(2): Job id 1 executing sleep duration 1

Producer(1): Job id 3 duration 1

Producer(1): No more jobs to generate.

Producer(2): Job id 4 duration 7 Consumer(2): Job id 1 completed

Consumer(2): Job id 2 executing sleep duration 4

Consumer(3): Job id 5 completed

Consumer(3): Job id 3 executing sleep duration 1

Consumer(3): Job id 3 completed

Consumer(3): Job id 4 executing sleep duration 7

Producer(2): Job id 5 duration 7 Consumer(2): Job id 2 completed

Consumer(2): Job id 5 executing sleep duration 7

Consumer(1): Job id 4 completed Producer(2): Job id 1 duration 9

Consumer(1): Job id 1 executing sleep duration 9

Producer(2): Job id 2 duration 10

Producer(2): No more jobs to generate.

Consumer(3): Job id 4 completed

Consumer(3): Job id 2 executing sleep duration 10

Consumer(2): Job id 5 completed

Consumer(1): Job id 1 completed

Consumer(3): Job id 2 completed

Consumer(2): No more jobs left. Consumer(1): No more jobs left. Consumer(3): No more jobs left.