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jb621@gpu25:given$ make
g++ -Wall -c helper.cc main.cc
g++ -Wall -pthread -o main helper.o main.o
jb621@gpu25:given$ ./main 5 6 2 3
Producer(2): Job id 0 duration 6.
Consumer(1): Job id 0 executing sleep duration 6.
Producer(1): Job id 1 duration 3.
Consumer(2): Job id 1 executing sleep duration 3.
Producer(2): Job id 2 duration 8.
Consumer(3): Job id 2 executing sleep duration 8.
Consumer(2): Job id 1 completed.
Producer(2): Job id 3 duration 7.
Consumer(2): Job id 3 executing sleep duration 7.
Producer(1): Job id 4 duration 9.
Consumer(1): Job id 0 completed.
Consumer(1): Job id 4 executing sleep duration 9.
Producer(2): Job id 0 duration 7.
Producer(1): Job id 1 duration 7.
Consumer(3): Job id 2 completed.
Consumer(3): Job id 0 executing sleep duration 7.
Consumer(2): Job id 3 completed.
Consumer(2): Job id 1 executing sleep duration 7.
Producer(2): Job id 2 duration 10.
Producer(1): Job id 3 duration 10.
Consumer(1): Job id 4 completed.
Consumer(1): Job id 2 executing sleep duration 10.
Producer(2): Job id 4 duration 5.
Producer(2): No more jobs to generate.
Producer(1): Job id 0 duration 5.
Consumer(3): Job id 0 completed.
Consumer(3): Job id 3 executing sleep duration 10.
Consumer(2): Job id 1 completed.
Consumer(2): Job id 4 executing sleep duration 5.
Producer(1): Job id 1 duration 7.
Producer(1): No more jobs to generate.
Consumer(2): Job id 4 completed.
Consumer(2): Job id 0 executing sleep duration 5.
Consumer(1): Job id 2 completed.
Consumer(1): Job id 1 executing sleep duration 7.
Consumer(3): Job id 3 completed.
Consumer(2): Job id 0 completed.
Consumer(1): Job id 1 completed.
Consumer(3): No more jobs left.
Consumer(2): No more jobs left.
Consumer(1): No more jobs left.
jb621@gpu25:given$ 

```