```
dcl18@tui:~/OS coursework/given$ make
q++ -Wall -c helper.cc main.cc
g++ -Wall -pthread -o main helper.o main.o
dcl18@tui:~/OS coursework/given$ ./main 5 6 2 3
Producer(1): Job id 1 duration 4
Consumer(2): Job id 2 executing sleep duration 4
Consumer(3): No more jobs left.
Producer(2): Job id 2 duration 4
Producer(2): Job id 3 duration 2
Consumer(1): Job id 1 executing sleep duration 4 Producer(1): Job id 4 duration 10 Consumer(2): Job id 2 completed
Consumer(2): Job id 3 executing sleep duration 2
Consumer(1): Job id 1 completed
Consumer(1): Job id 4 executing sleep duration 10
Producer(2): Job id 5 duration 4
Producer(1): Job id 1 duration 10
Consumer(2): Job id 3 completed
Consumer(2): Job id 5 executing sleep duration 4
Producer(2): Job id 2 duration 7
Producer(1): Job id 3 duration 2
Consumer(2): Job id 5 completed
Consumer(2): Job id 1 executing sleep duration 10
Producer(2): Job id 4 duration 6
Producer(1): Job id 5 duration 3
Producer(2): Job id 1 duration 2
Producer(2): No more jobs to generate.
Consumer(1): Job id 4 completed
Consumer(1): Job id 2 executing sleep duration 7
Producer(1): Job id 2 duration 10
Producer(1): No more jobs to generate.
Consumer(2): Job id 1 completed
Consumer(2): Job id 3 executing sleep duration 2
Consumer(1): Job id 2 completed
Consumer(1): Job id 4 executing sleep duration 6
Consumer(2): Job id 3 completed
Consumer(2): Job id 5 executing sleep duration 3
Consumer(2): Job id 5 completed
Consumer(2): Job id 1 executing sleep duration 2
Consumer(1): Job id 4 completed
Consumer(1): Job id 2 executing sleep duration 10
Consumer(2): Job id 1 completed
Consumer(2): No more jobs left.
Consumer(1): Job id 2 completed
Consumer(1): No more jobs left.
dcl18@tui:~/OS_coursework/given$
```