

```
lhs19@edge09:given$ make
g++ -c -o helper.o helper.cc
g++ -Wall -g -c helper.cc main.cc
g++ -Wall -g -pthread -o main helper.o main.o
lhs19@edge09:given$ ./main 5 6 2 3
Producer (1): Job id 0 duration 4
Producer (2): Job id 1 duration 8
Consumer (1): Job id 0 executing sleep duration 4
Consumer (2): Job id 1 executing sleep duration 8
Producer (2): Job id 0 duration 4
Consumer (3): Job id 0 executing sleep duration 4
Producer (1): Job id 0 duration 7
Producer (2): Job id 1 duration 10
Consumer (1): Job id 0 completed
Consumer (1): Job id 0 executing sleep duration 7
Producer (2): Job id 2 duration 3
Producer (1): Job id 3 duration 1
Consumer (3): Job id 0 completed
Consumer (3): Job id 1 executing sleep duration 10
Producer (2): Job id 4 duration 4
Consumer (2): Job id 1 completed
Consumer (2): Job id 2 executing sleep duration 3
Producer (2): Job id 0 duration 1
Producer (1): Job id 1 duration 3
Consumer (1): Job id 0 completed
Consumer (2): Job id 2 completed
Consumer (1): Job id 3 executing sleep duration 1
Consumer (2): Job id 4 executing sleep duration 4
Producer (2): No more jobs to generate.
Producer (1): Job id 2 duration 2
Consumer (1): Job id 3 completed
Consumer (1): Job id 0 executing sleep duration 1
Consumer (1): Job id 0 completed
Consumer (1): Job id 1 executing sleep duration 3
Consumer (3): Job id 1 completed
Consumer (3): Job id 2 executing sleep duration 2
Consumer (2): Job id 4 completed
Producer (1): Job id 0 duration 8
Consumer (2): Job id 0 executing sleep duration 8
Consumer (1): Job id 1 completed
Consumer (3): Job id 2 completed
Producer (1): No more jobs to generate.
Consumer (2): Job id 0 completed
Consumer (1): No more jobs left.
Consumer (3): No more jobs left.
Consumer (2): No more jobs left.
lhs19@edge09:given$
```