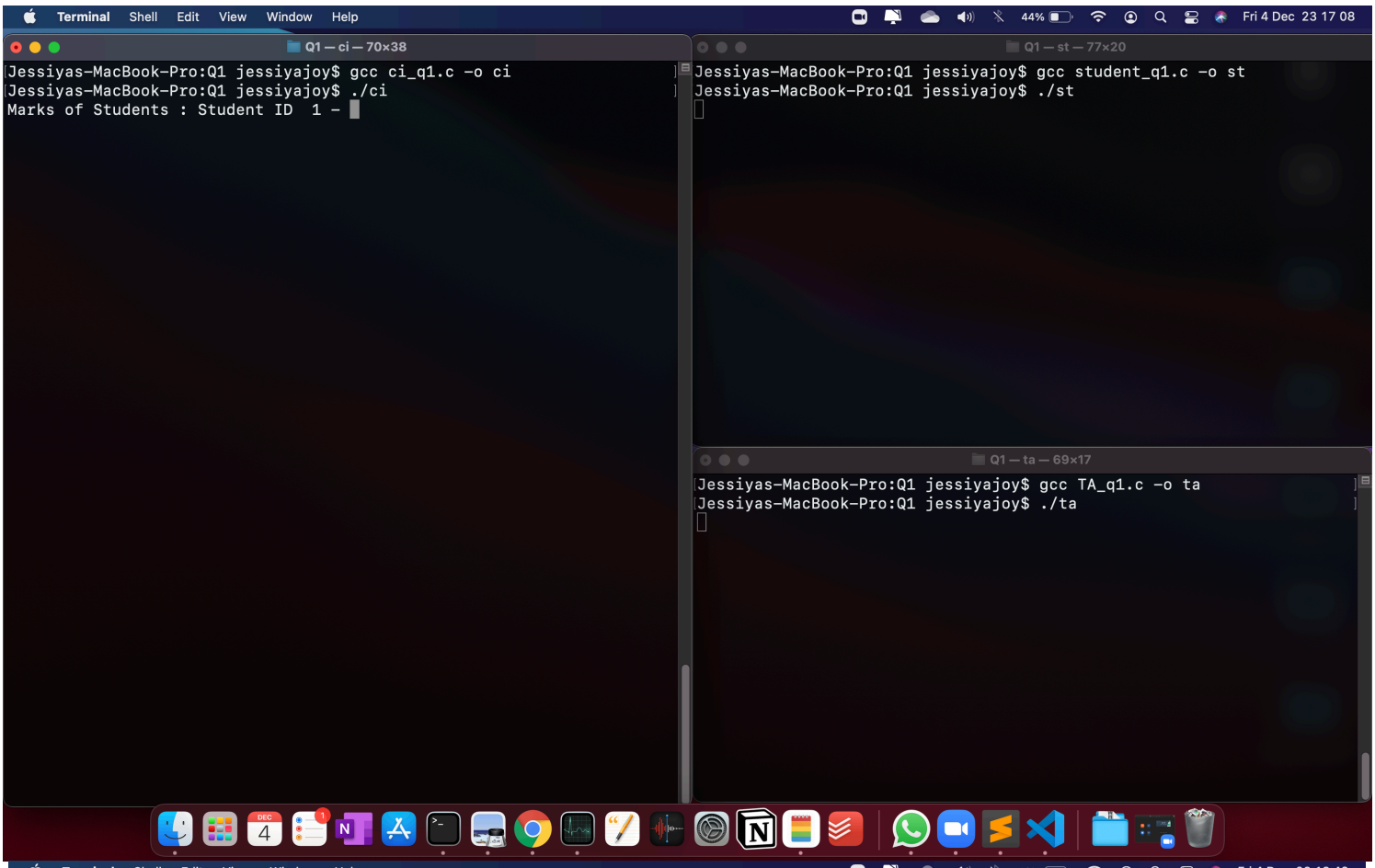
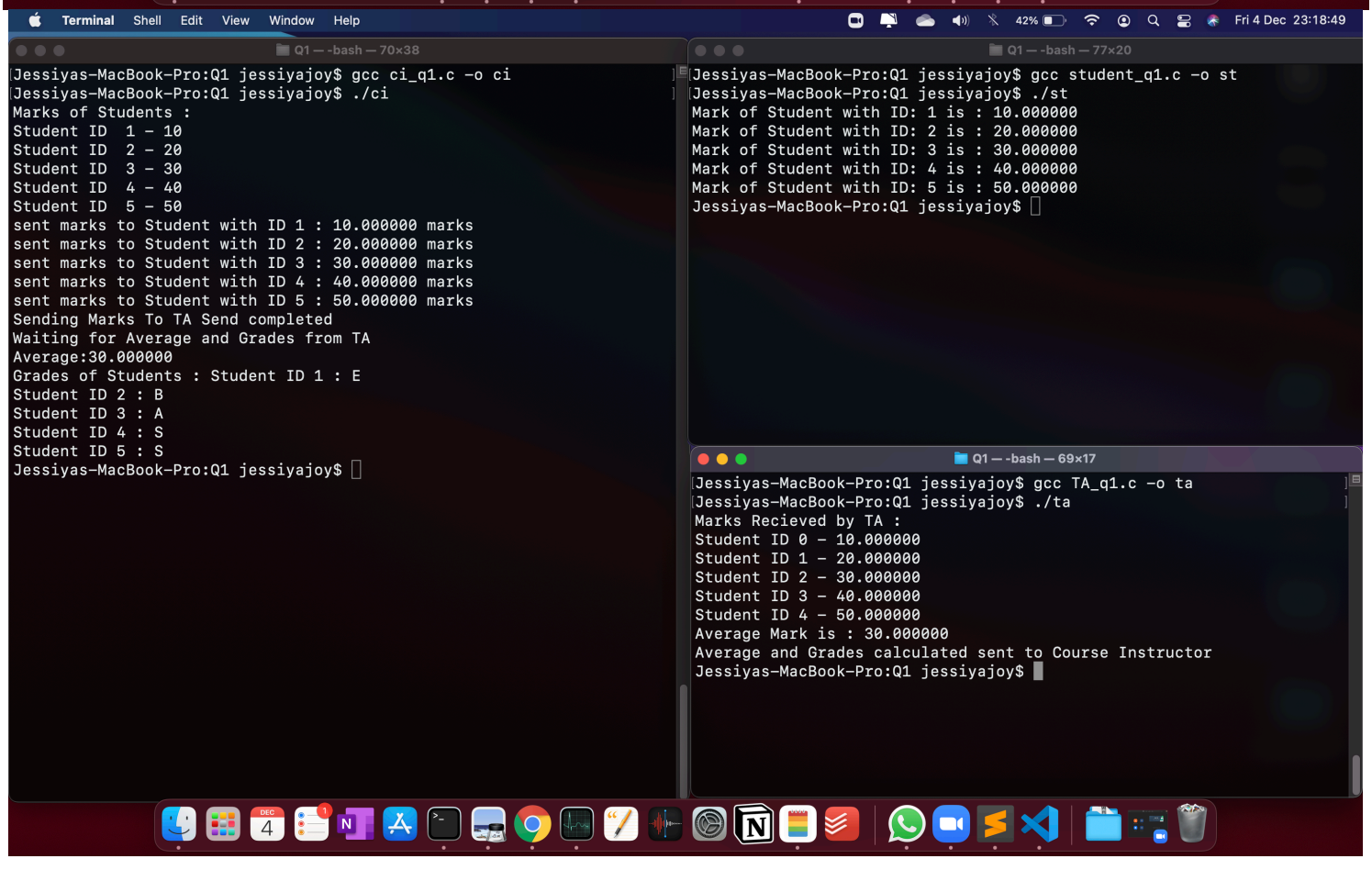
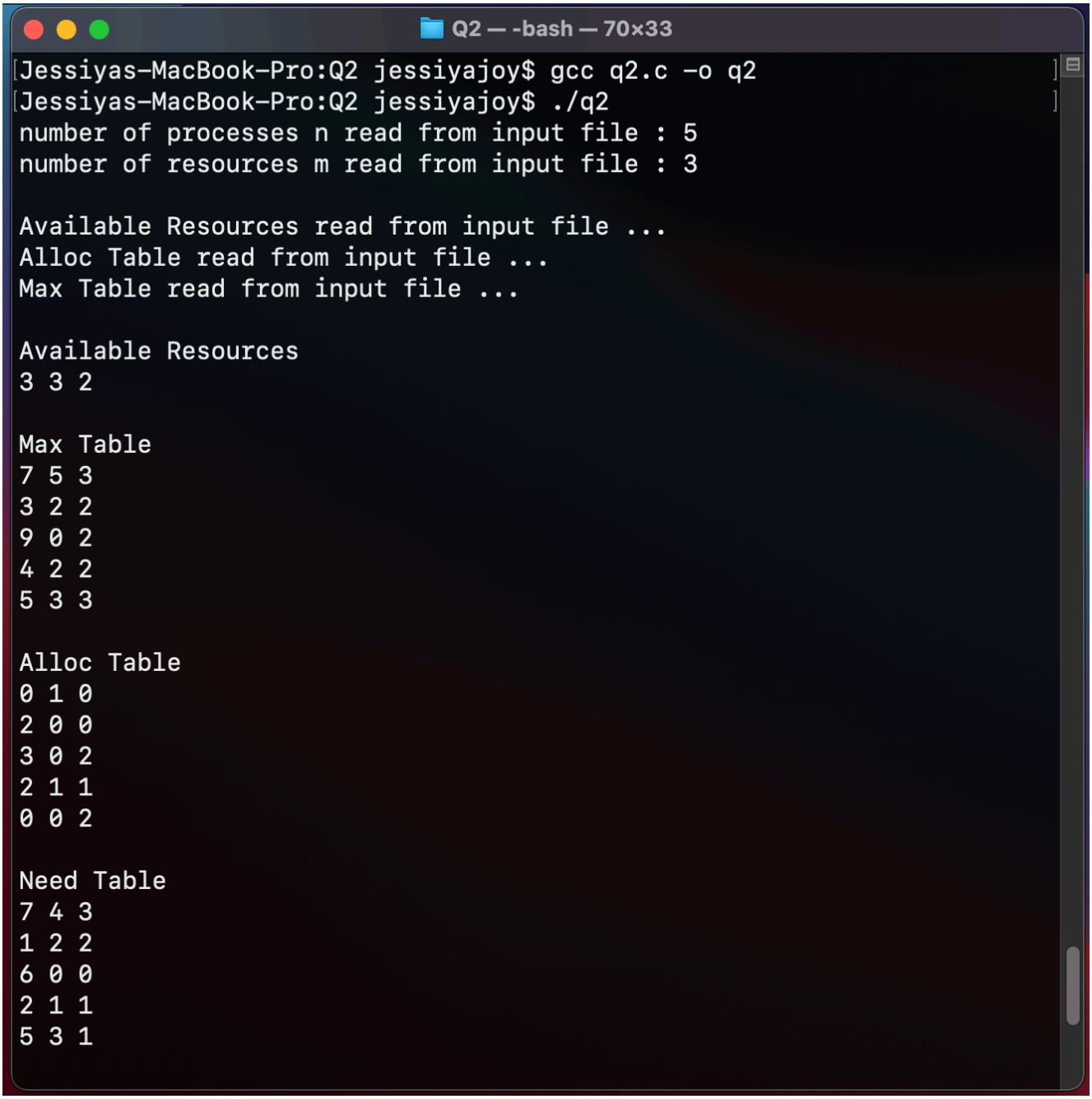
Screenshots

Question 1



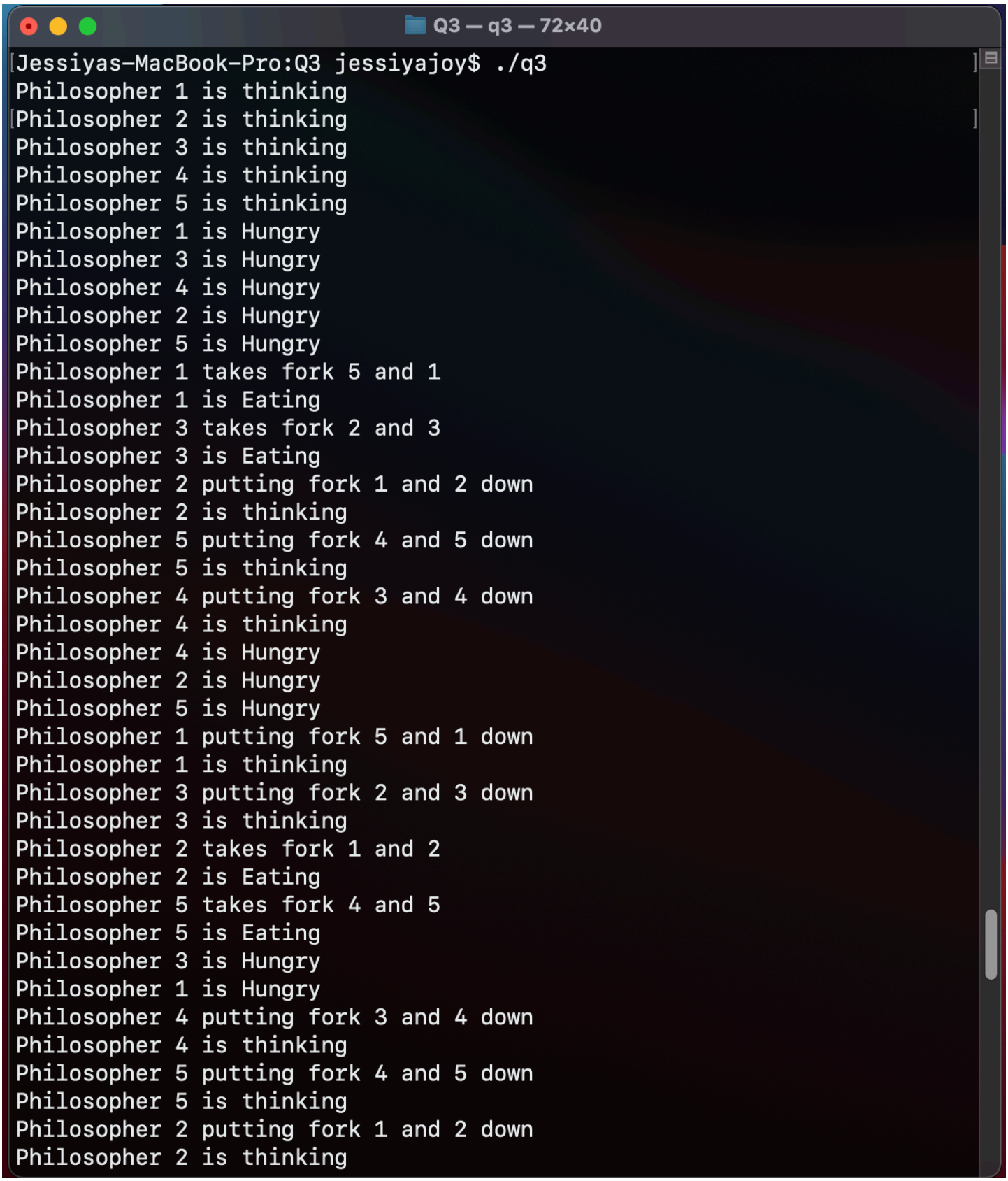


Question 2


Q2 — -bash — 70×33
Jessiyas-MacBook-Pro:Q2 jessiyajoy$ gcc q2.c -o q2
Jessiyas-MacBook-Pro:Q2 jessiyajoy$ ./q2
number of processes n read from input file : 5
number of resources m read from input file : 3
Available Resources read from input file ...
Alloc Table read from input file ...
Max Table read from input file ...
Available Resources
3 3 2
Max Table
7 5 3
3 2 2
9 0 2
4 2 2
5 3 3
Alloc Table
0 1 0
2 0 0
3 0 2
2 1 1
0 0 2
Need Table
7 4 3
1 2 2
6 0 0
2 1 1
5 3 1

```
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Following is a Safe Sequence
2 3 1 4 5

input sequence read from input file
Input Sequence : 1 2 3 4 5
State is NOT SAFE

input sequence read from input file
Input Sequence : 2 3 1 4 5
State is SAFE

input request read from input file

Request  7 7 7
REQUEST CANNOT BE GRANTED

input request read from input file

Request  1 0 2
REQUEST CAN BE GRANTED

Jessiyas-MacBook-Pro:Q2 jessiyajoy$
```

Question 3


Q3 — q3 — 72×40
Jessiyas-MacBook-Pro:Q3 jessiyajoy$ ./q3
Philosopher 1 is thinking
Philosopher 2 is thinking
Philosopher 3 is thinking
Philosopher 4 is thinking
Philosopher 5 is thinking
Philosopher 1 is Hungry
Philosopher 3 is Hungry
Philosopher 4 is Hungry
Philosopher 2 is Hungry
Philosopher 5 is Hungry
Philosopher 1 takes fork 5 and 1
Philosopher 1 is Eating
Philosopher 3 takes fork 2 and 3
Philosopher 3 is Eating
Philosopher 2 putting fork 1 and 2 down
Philosopher 2 is thinking
Philosopher 5 putting fork 4 and 5 down
Philosopher 5 is thinking
Philosopher 4 putting fork 3 and 4 down
Philosopher 4 is thinking
Philosopher 4 is Hungry
Philosopher 2 is Hungry
Philosopher 5 is Hungry
Philosopher 1 putting fork 5 and 1 down
Philosopher 1 is thinking
Philosopher 3 putting fork 2 and 3 down
Philosopher 3 is thinking
Philosopher 2 takes fork 1 and 2
Philosopher 2 is Eating
Philosopher 5 takes fork 4 and 5
Philosopher 5 is Eating
Philosopher 3 is Hungry
Philosopher 1 is Hungry
Philosopher 4 putting fork 3 and 4 down
Philosopher 4 is thinking
Philosopher 5 putting fork 4 and 5 down
Philosopher 5 is thinking
Philosopher 2 putting fork 1 and 2 down
Philosopher 2 is thinking