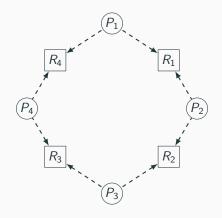
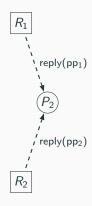
Dining Philosophers



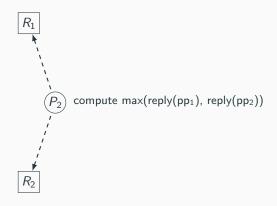
Dining Philosophers - Assumptions

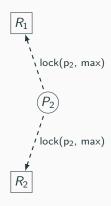
	r_1	r ₂	r ₃	r ₄
1				
2				
3				
:	:	:	:	:
n				













Dining Philosophers - Problems

Problem₁: $qpp(r_n)$ is incremented (at reply) but if not used (at confirm) points to the wrong location. Incrementing $qpp(r_n)$ at confirm would result in multiple request receiving the same $qpp(r_n)$.

Fix: update $qpp(r_n)$ again at locking;

Dining Philosophers - Problems

```
Problem<sub>2</sub>: Suppose, p_1 requested \{r_1, r_2\}. r_1 replies p_1 with n_1 and before r_2 replies with n_2 (n_1 < n_2); Suppose pp(r_1) has been incremented few times (because someone else also asked for the same resource). Thus when eventually he gets both replies and computes max(n_1, n_2) = n_2 for p_1 cannot write to r_1 at r_1(n_2).
```

Dining Philosophers - Problems

Problem₃: Confirming that all requests and reply messages have been received, and a maximum number can be returned.

Fix: