|  |  |  |
| --- | --- | --- |
| Semaphore | Function | Initial Value |
| in\_res\_ready | Signals that the check-in reservationist is ready to receive a guest | 1 |
| out\_res\_ready | Signals that a check-out reservationist is ready to receive a guest | 1 |
| at\_in\_desk | Signals that a guest is at the check-in reservationist | 0 |
| at\_out\_desk | Signals that a guest is at the check-in reservationist | 0 |
| check\_in\_done | Signals that the check-in reservationist has assigned a room and key to a guest | 0 |
| check\_out\_done | Signals that the check-out reservationist has printed a guest’s receipt | 0 |
| guest\_has\_keys | Signals that the guest has obtained their room number and keys | 0 |
| guest\_has\_receipt | Signals that the guest has received their receipt | 0 |
| open\_rooms | A shared resource indicating the number of available rooms | 3 |