# CCP Lab Week 6 – Garage

A garage owner found that if all 4 workers work on the car at the same time, the work quality is compromised as they disrupt each other’s work.

Modify the garage flow so that the Mechanic will complete his job first. Once the repairs are done, the Tyre Guy will change all 4 tyres. When all 4 tyres are replaced, the Polish guy can polish the car. Once all 3 coats of polish are done, the Vacuum Guy can vacuum the car.

## OUTPUT:

Mechanic working on the repairs.

Mechanic replacing engine oil

Mechanic replacing oil filter

Mechanic checking fan belts

Mechanic replacing fan belts

Mechanic engine repairs done!

Tyre Guy reporting for work!

Tyre Guy: I'll start on this car!

Tyre Guy removing tyre 4

Tyre Guy replacing tyre 4

Tyre Guy reinstalling tyre 4

Tyre Guy removing tyre 3

Tyre Guy replacing tyre 3

Tyre Guy reinstalling tyre 3

Tyre Guy removing tyre 2

Tyre Guy replacing tyre 2

Tyre Guy reinstalling tyre 2

Tyre Guy removing tyre 1

Tyre Guy replacing tyre 1

Tyre Guy reinstalling tyre 1

Tyre Guy : All tyres replaced!

Polish Guy reporting for work!

Polish Guy: I'll start on this car!

Polish Guy putting on coat 3

Polish Guy putting on coat 2

Polish Guy putting on coat 1

Polish Guy: 3 coats of polish done!

Vacuum Guy ready to vacuum!

Vacuum Guy vacuuming front seats

Vacuum Guy vacuuming back seats

Vacuum Guy done vacuuming!

# Case 2

The customers complain that the vacuuming takes too long. The owner decides to hire 2 vacuum guys to vacuum together at the same time.

## OUTPUT

\*\* Mechanic reporting for work! \*\*

Mechanic replacing engine oil

Mechanic replacing oil filter

Mechanic checking fan belts

Mechanic replacing fan belts

-- Mechanic engine repairs done! --

\*\* Tyre Guy reporting for work! \*\*

Tyre Guy: I'll start on this car!

Tyre Guy removing tyre 4

Tyre Guy replacing tyre 4

Tyre Guy reinstalling tyre 4

Tyre Guy removing tyre 3

Tyre Guy replacing tyre 3

Tyre Guy reinstalling tyre 3

Tyre Guy removing tyre 2

Tyre Guy replacing tyre 2

Tyre Guy reinstalling tyre 2

Tyre Guy removing tyre 1

Tyre Guy replacing tyre 1

Tyre Guy reinstalling tyre 1

-- Tyre Guy: All tyres replaced! --

\*\* Polish Guy reporting for work! \*\*

Polish Guy: I'll start on this car!

Polish Guy putting on coat 1

Polish Guy putting on coat 2

Polish Guy putting on coat 3

-- Polish Guy: 3 coats of polish done! --

\*\* Vacuum Guy 1 reporting for work! \*\*

\*\* Vacuum Guy 2 reporting for work! \*\*

Vacuum Guy 1 vacuuming front seats

Vacuum Guy 2 vacuuming front seats

Vacuum Guy 1 vacuuming back seats

Vacuum Guy 2 vacuuming back seats

-- Vacuum Guy 1 done vacuuming! --

-- Vacuum Guy 2 done vacuuming! --