Factory Simulation

- Nuts
- Bolts

- Assembler
  - \( t = 2 \) (Assuming a processing time)

- Cutter
  - \( t = 3 \) (Assuming a processing time)

- Painter
  - \( t = 1 \) (Assuming a processing time)

- Output Queue

- Combines nut + bolt into assembly

- Cuts 1 assembly into 3 toys

- Changes property of toys:
  - Color = "red"

Queue

- Push
- Pop
- Len
- Repeat

Infinite Queue

Part 2 was id

Machine

- Name
- Timestep

Factory

- Machines
- Queues
- Setup
- Simulate
- Repeat

Assembly

- Has sub-parts

Toy

Cutler

- Start Operation ()
- Finish Operation ()

- Repeat ()