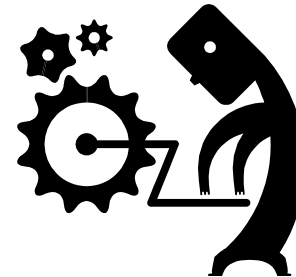
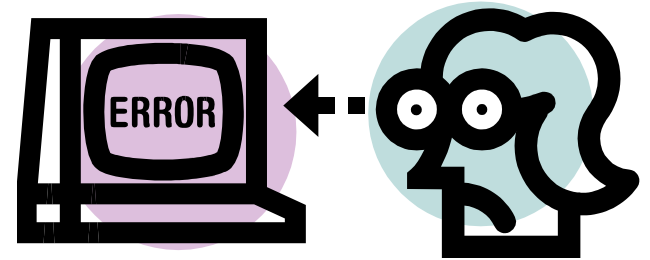


Just-In-Time

**Essentially JIT means the elimination of waste --
in whatever form it might take**

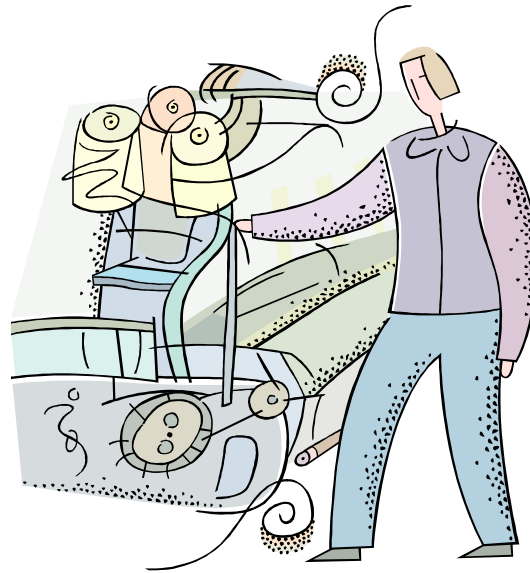
- 1. time**
- 2. energy**
- 3. materials**
- 4. supplies**
- 5. errors**
- 6. inventory**



--- the Japanese certainly view inventory as waste

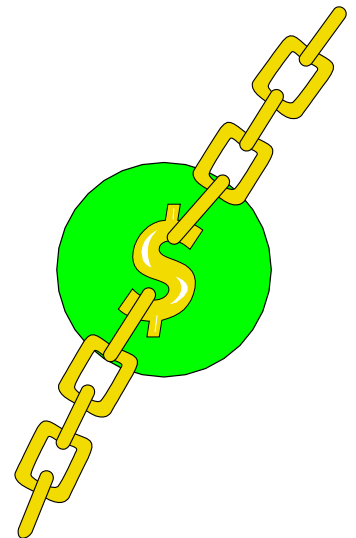
JIT Concepts

- **Stockless Production**
- **Pull Production Systems**
- **Kan Ban**

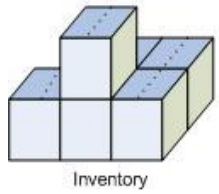


Additional JIT Concepts

- **1. Elimination of discrete batches or Significant Reduction in Batch Size**
- **2. Reduction of All Inventories**
- **3. Production Schedules that Level the Capacity Loads**
- **4. Visual Control Systems**
- **5. Direct Ties With Vendors**
- **6. Reduction (if possible Elimination) of Setup Time**
- **7. Focus on Continuous Improvement**



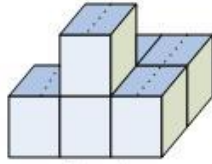
Production



Inventory



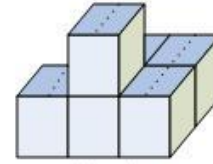
Manufacturing



Inventory



Manufacturing



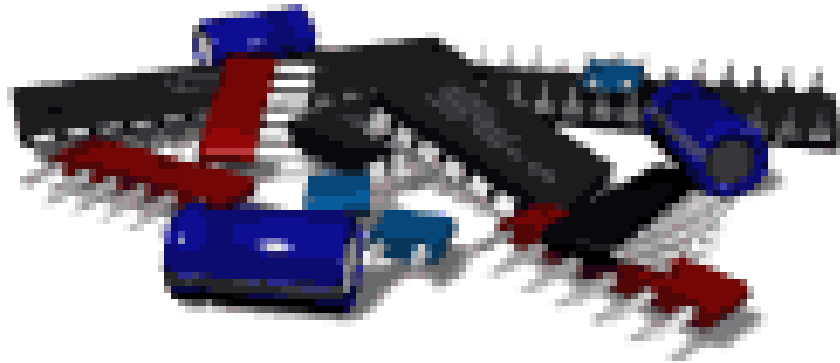
Inventory

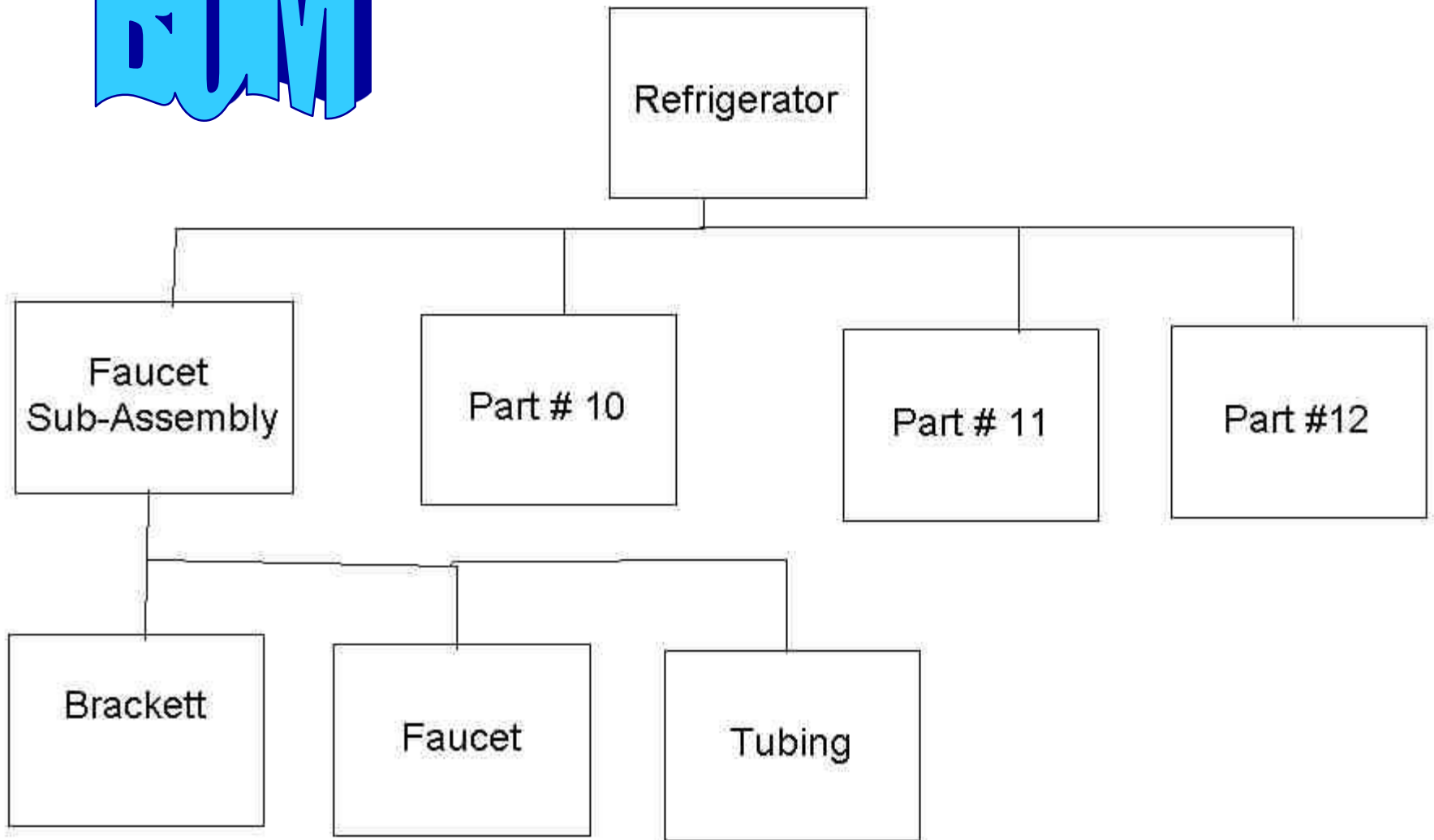


Manufacturing

Transient Sub-Assembly

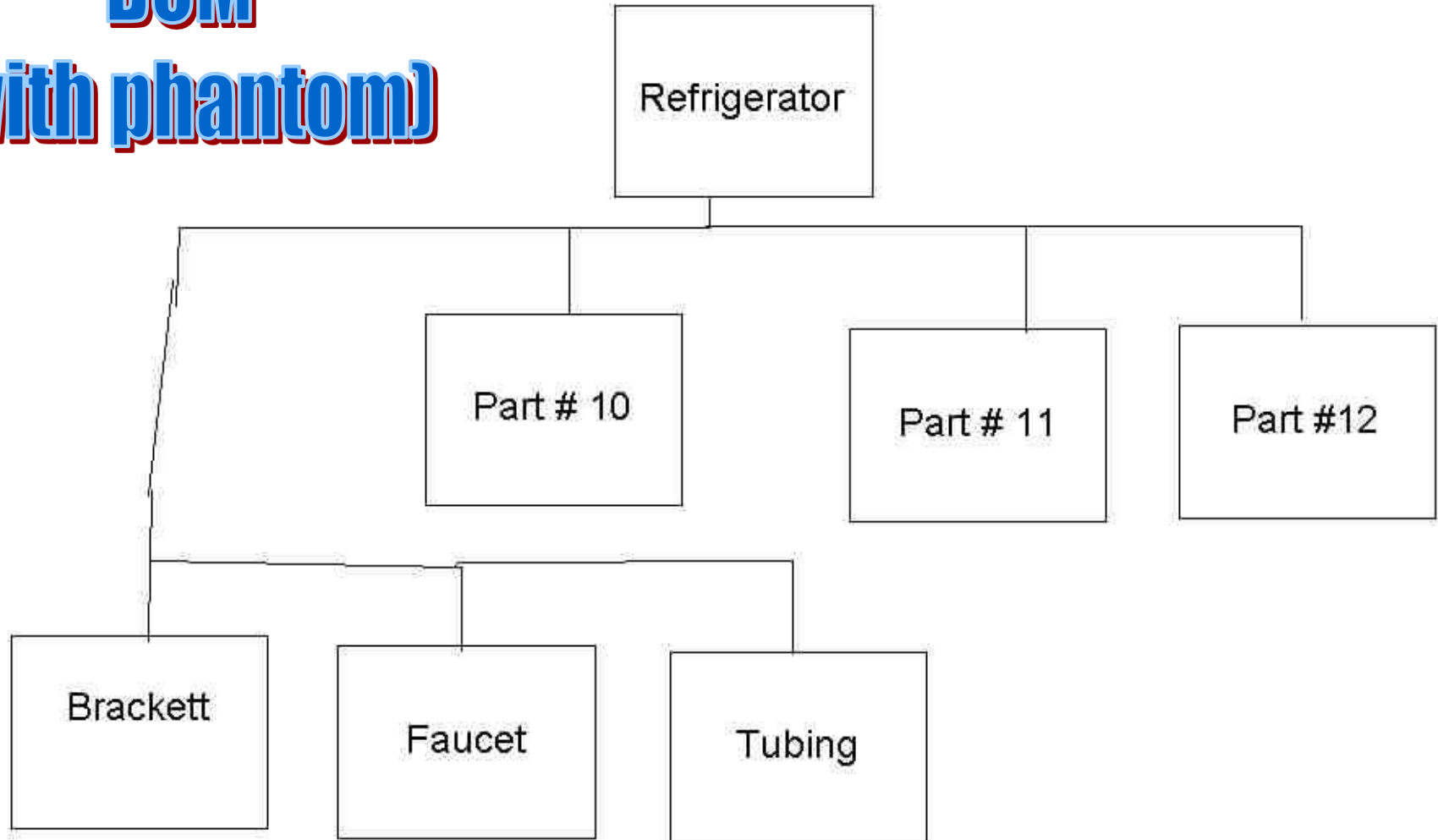
- Also called a Phantom





BOM

(with phantom)



Hewlett-Packard

- Scheduling in a JIT Environment

