## **Project Specifications: Data Structures and Functions**

* Design and implement the manager that support multilevel scheduling, including:
  + PCB, RCB, and RL data structures
  + functions *create(), destroy(), request()*, *release()*, *timeout(), scheduler(), init()*
* Design and implement the shell (see command language and output specifications)
* Instantiate manager to include the following at start-up:
  + A process descriptor array PCB[16]
  + A resource descriptor array RCB[4] with single-unit resources
  + A 3-level RL
* The init function should always perform the following tasks:
  + Erase all previous contents of the data structures PCB, RCB, RL
  + Create a single running process at PCB[0] with priority 0
  + Enter the process into the RL at the lowest-priority level 0