Presentation/Test Shell: Command Language and Output

Mandatory Commands

The following commands will be used in the test files for this project:

- in

  Restore the system to its initial state.

- cr <p>

  Invoke function create(), which creates a new process at the priority level <p>;
  <p> can be 1 or 2 (0 is reserved for init process)

- de <i>

  Invoke the function destroy(), which destroy the process identified by the PCB index <i>,
  and all of its descendants

- rq <r> <n>

  Invoke the function request(), which requests <n> units of resource <r>;
  <r> can be 0, 1, 2, or 3; n=1 for <r>=0 and <r>=1, <n>=2 for <r>=2, and <n>=3 for
  <r>=3.

- rl <r> <n>

  Invoke the function release(), which release the resource <r>;
  <r> can be 0, 1, 2, or 3; <n> gives the number of units to be released

- to

  Invoke the function timeout().

Output

- For each input command, output the index of the process running next
  - output only a single integer, separated from the previous integer by a blank space
  - output no other additional information
- If an error occurs, output -1 instead of the process index and ignore the command
  - the next command will be "in" to start a new test sequence
- Start a new line for each "in" command