

What will be tested?

The input file contains a series of tests. Each test (except the first one) starts with the init command; this is followed by a number of other commands (one per line), and it ends with a blank line (just like the sample input).

All commands have a correct format. Specifically, only existing opcodes will be given (cr, req, to, etc.) followed by the appropriate number of parameters, each separated by a blank (again as shown in the sample input).

If you work alone, then only valid commands, i.e., commands that produce no errors will be given. You do not need to implement any error checking.

If you work in a team then commands will have the correct syntax but they may request operations that are illegal. This includes commands that would never succeed (e.g. requesting 5 units of any resource); commands that violate semantics (e.g. releasing a resource held by a different process); or commands that would cause problems in the future (e.g. creating multiple processes with the same name).

It is part of your assignment to identify and catch all such illegal operations. If any such a command is detected, simply write "error" into the output file and continue with the next command.

The output file should contain only statements of the form "p is running" (where p is the currently running process), or "error"; one statement per line. To facilitate grading, do not output any additional information.