Simulator

Responisbility:
- read and write from files
- make and set global simulation parametars
- give process data to the schedular to create the process

Colabrators:
- schedular

Scheduler

Responisbility:
- maintain list of new processes
- create processors
- create new processes
- maintain processeors lists
- schedule prcesses to proccessors
- maintain I/O cell (add/remove/run)
- maintain a BLk list for processes waiting for I/O
- order UI class to make output
- collect statics about the program
- schedule migrated processes
- manage prcess stealing and moving a process from one cpu to another
- schedule froked process
- terminate orphan processes
- maintain a list of terminated processes

Colabrators:
- clock
- simulator
- processor
- UI

UI

Responisbility:
- control all input and output to the std I/O
- have a mode for interface and according to it control the output

Colabrators:
- schedular

Clock

Responisbility:
- maintain and step time

Colabrators:
- all who ask it is independent

process

Responisbility:
- maintain its state
- ask CPU for a fork
- collect stats for time and send to processor

Colabrators:
- processor
- clock
- scheduler

processor

Responisbility:
- maintain a RDY list of process
- scheule process for running
- run a process
- ask scheduler for IO
- ask scheduler for a fork
- collect statstics about self and processes and send to schedular
- migrate and ask for schedule for the new task from the scheuler
- terminate a process and send it back to scheular

Colabrators:
- scheularer
- clock
- process