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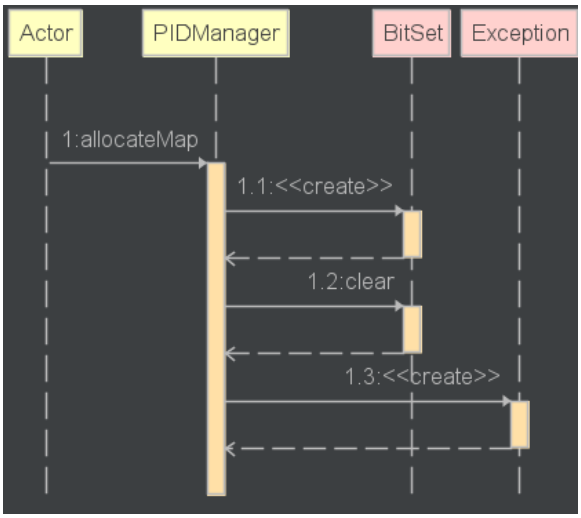
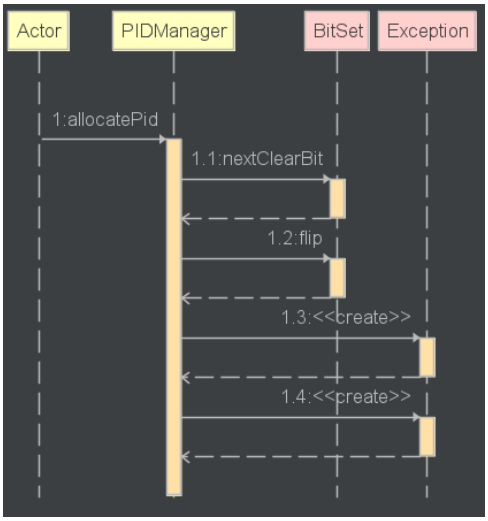
Programming Assignment #1 Report

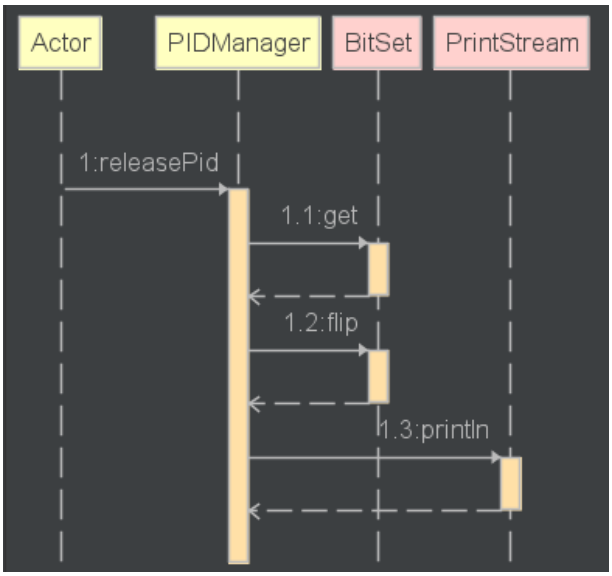
High level description of the code. You can use UML class and sequence diagrams or any other tool or natural language description.



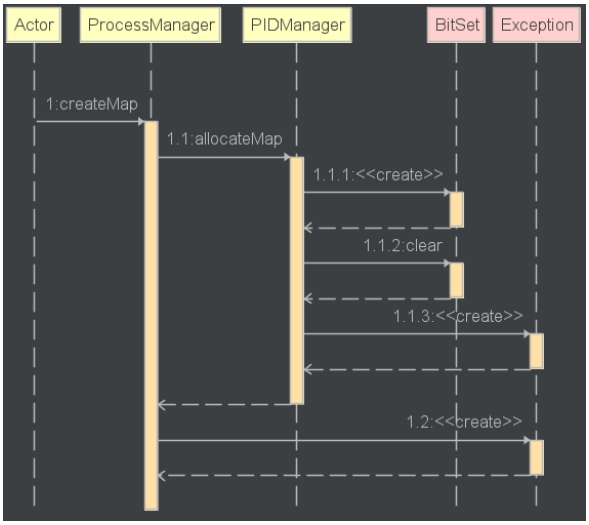
PIDManager - allocateMa()



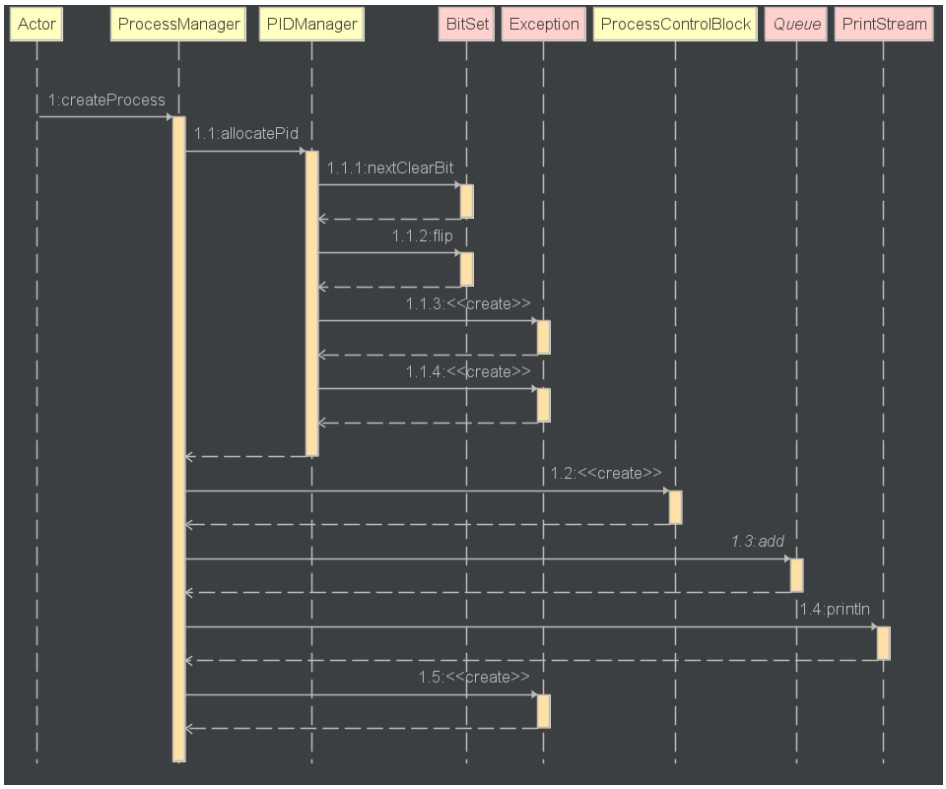
PIDManager - allocatePid()



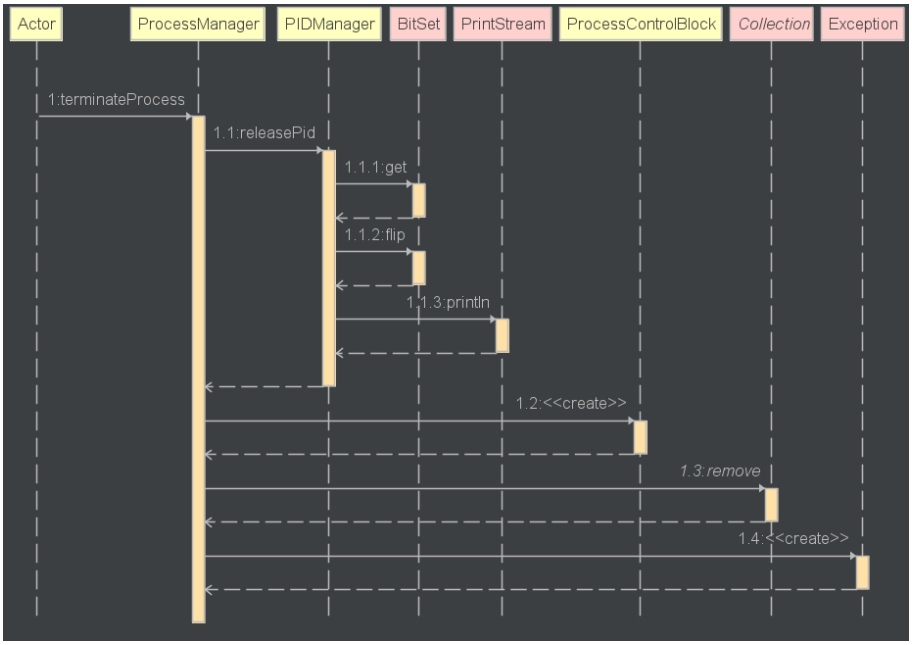
PIDManager - releasePid()



ProcessManager - allocateMap()



ProcessManager - createprocess()



ProcessManager - terminateProcess()

A detailed conclusion, discussing you experience. Please include the answer to what problems did you face?

For the first programming assignment, there were many new and old concepts, never used before classes (such as BitSet) and many debugging. Having worked on this assignment, the topic of process became clearer, but still need more work as I've stumbled a lot for this assignment.

A major problem I faced was not realizing I had to add a createMap() method in Processmanager.java which is called at the beginning of each test cases to initialize the map. My initial mistake was to have the allocateMap() method in createProcess() which was used in a for-loop. This meant that I would create a new map every loop, thus resetting everything in each iteration. This was evident as I print out the index and it always stayed at the minimum range value of 300. Another problem encountered was not understanding how the process control block and queue fit into the whole system. It took some time to realize how to implement these aspects into the createProcess() and terminateProcess().

A table detailing the contributions to this assignment of every team member. Note that every member of the team must contribute to the design and coding aspects of the assignment.

I am not part of any group, thus everything was done individually.