Module: Generator

Extends: Thread

FIeld Variables:

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| --- | --- | --- |
| Field Name | Type | Meaning |
| processCount | private int | represents how many processes have been generated. This variable is assigned as the ID for new processed generated. |

INTERFACE:

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| Method Name | Input | Output | Description | State Transitions | Dependencies |
| Generator | - | - | Constructor | INITIAL STATE:  processCount=0 | checkQueue() |
| run() | - | - | Overrided run method from Thread  Continually creates new processes and attempts to add them to the global  ReadyQueue object generated by the RRScheduler class.  The ReadyQueue monitor is responsible for regulating when the thread should be blocked and when it may proceed.  This run() method executes indefinitely. |  | this.enqueue() |

IMPLEMENTATION:

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| enqueue() | void | void | Creates a new Process and adds it to the readyQueue | generated=new Process(processCount)  RRScheduler.readyQ.enqueue(generated)  processCount++ | Process.Process (Constructor)  this.generateMessage()  RRScheduler.readyQ.enqueue(); |
| generateMessage() |  | none | Generates a message of the form  "Process # loaded into ready Queue) |  |  |