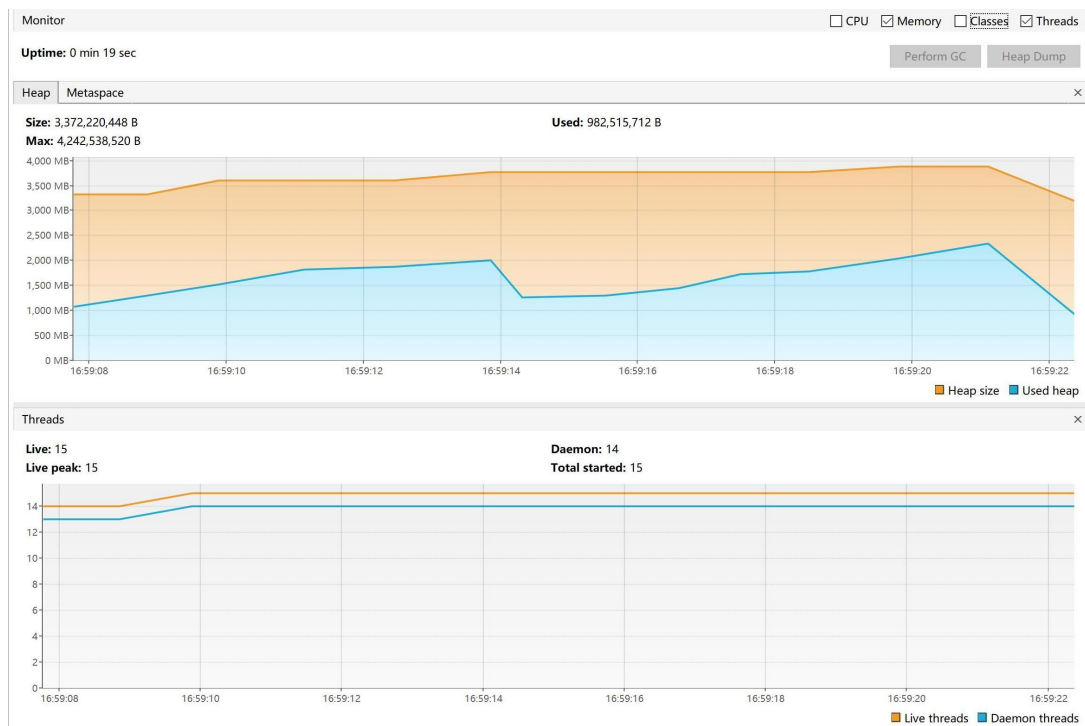
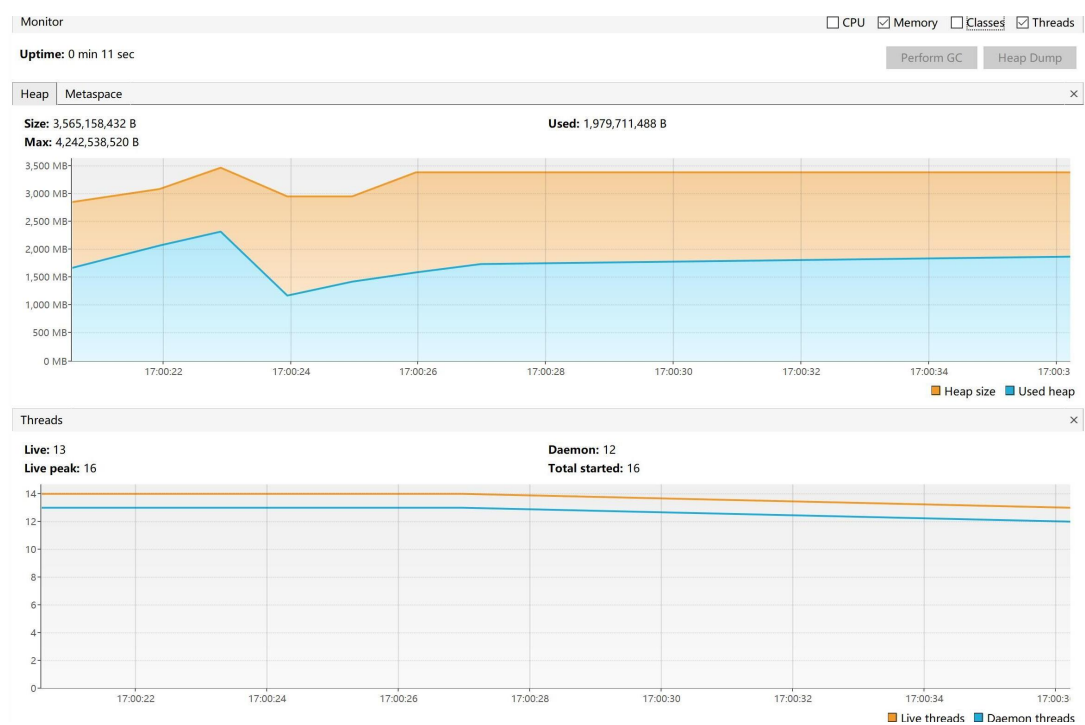


## LinkedList :



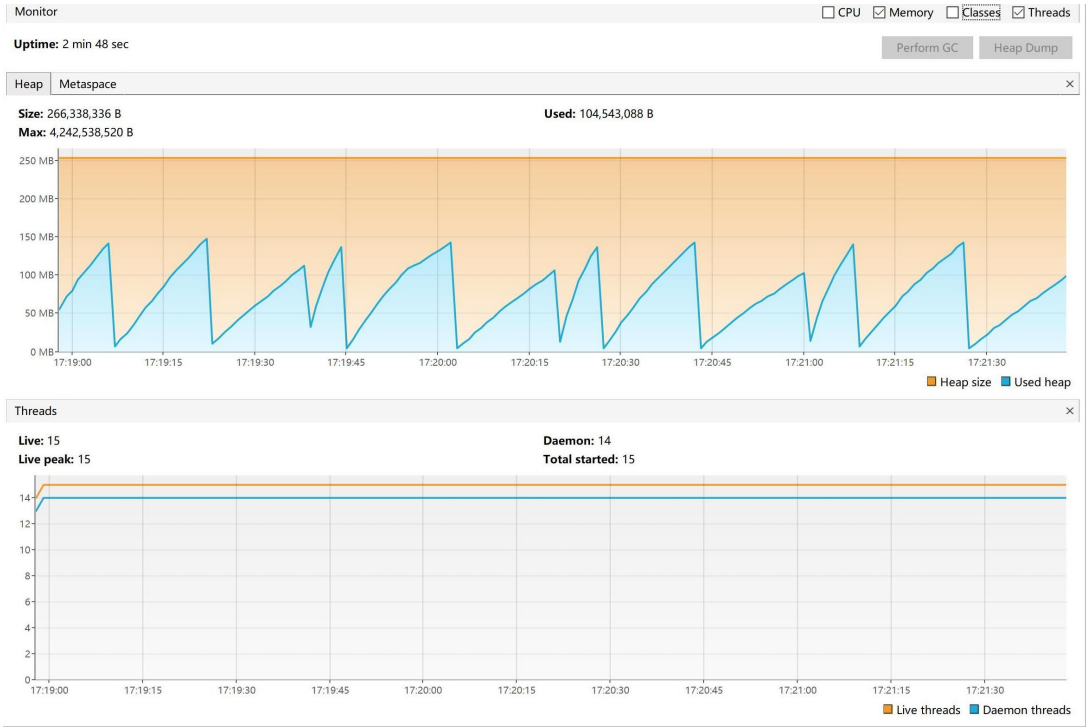
## ArreyList:



## Analysis:

The Arreylist takes less time than LinkList, but it occupied more memory.

ConsoleAppender:



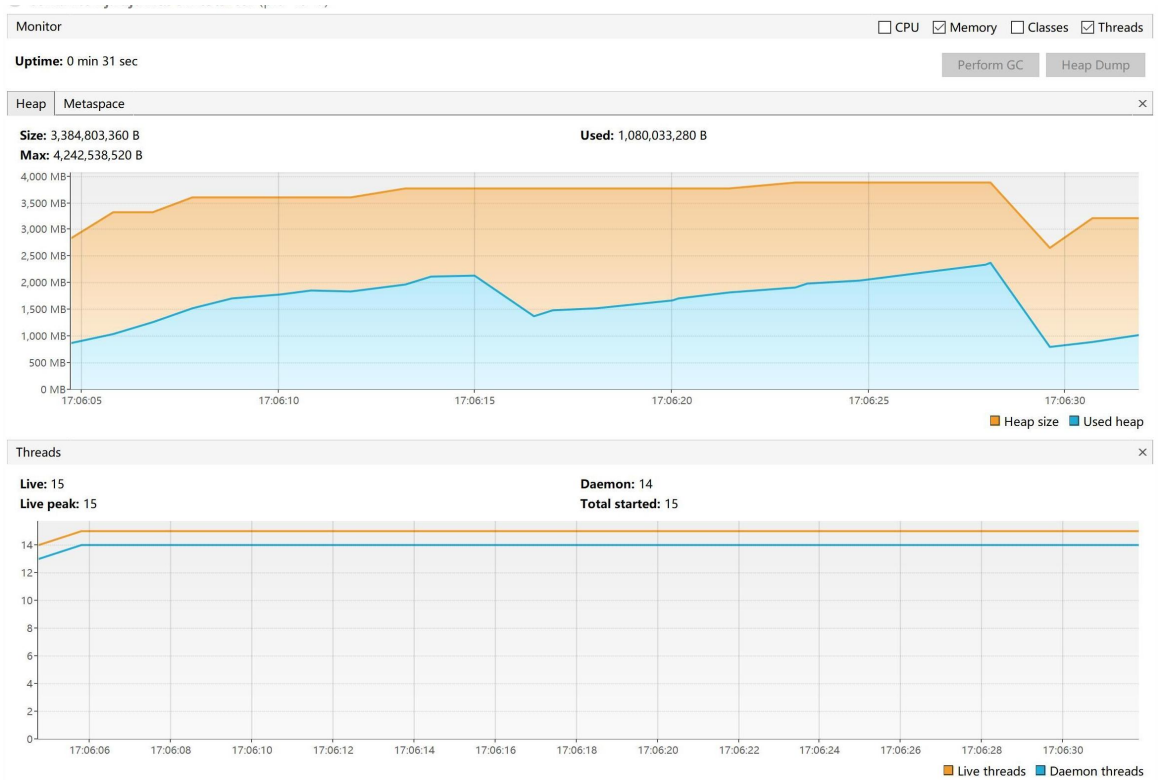
FileAppender:



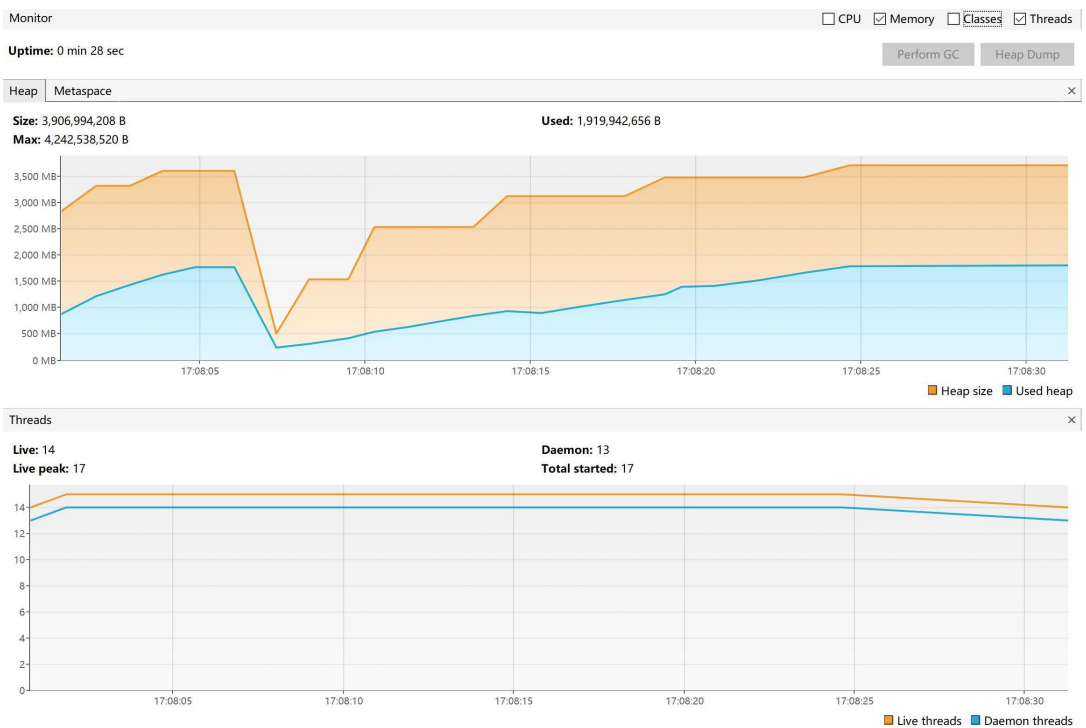
Analysis:

ConsoleAppender takes more time than FileAppender and occupied more memory. And in ConsoleAppender, the log content can be output in the console but in FileAppender, the log content output in the files.

PatternLayout:



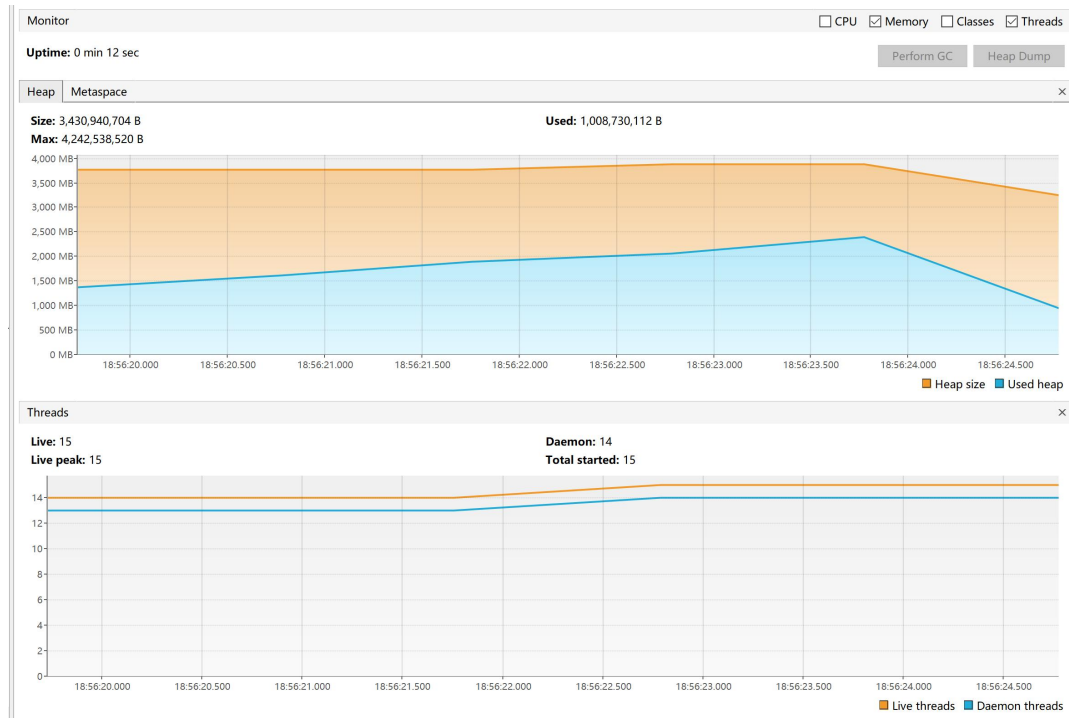
VelocityLayout:



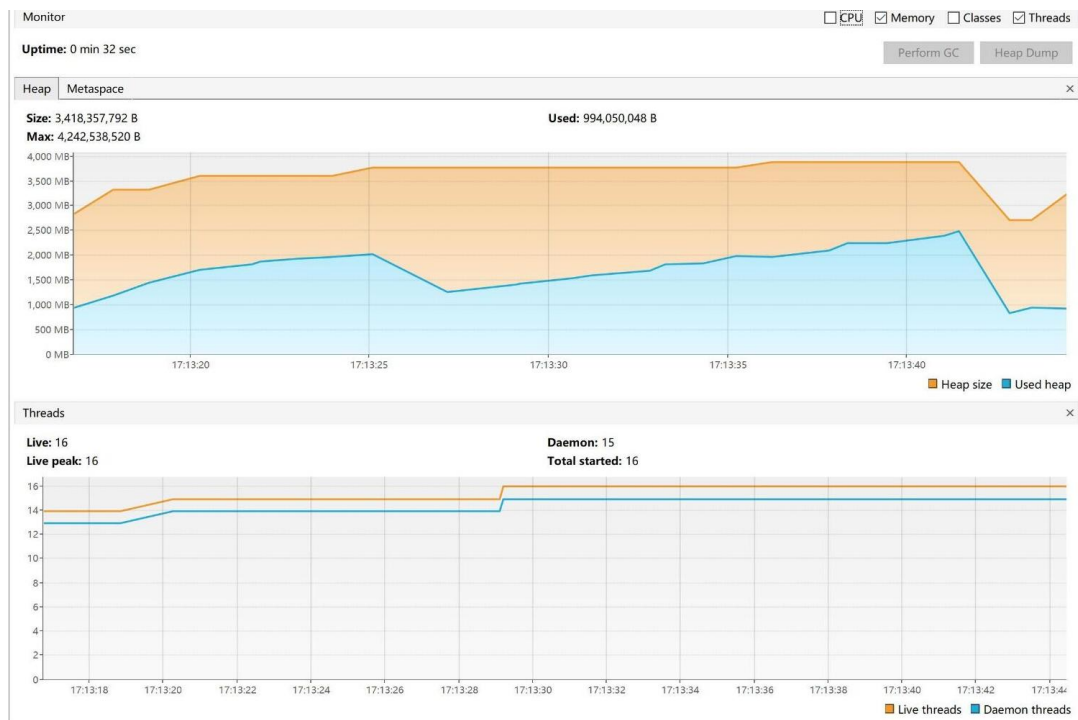
Analysis :

PatternLayout takes more time than VelocityLayout.

Before max size:



After max size:



Analysis: The virtual machine, running for an extended period and accumulating excessive unused information, initiates garbage collection, causing memory usage to decrease. However, if the usage

continues to rise before reaching the maximum limit, it will eventually lead to a crash once the limit is surpassed. Upon reaching the limit, the virtual machine will commence memory cleanup, retaining only necessary data.