NYIT

**Fall 2021**

Homework No: 06

Title: Threads

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**Course:** Java Networking

**Course ID:** CSCI 725

**Date:** 2/11/2021

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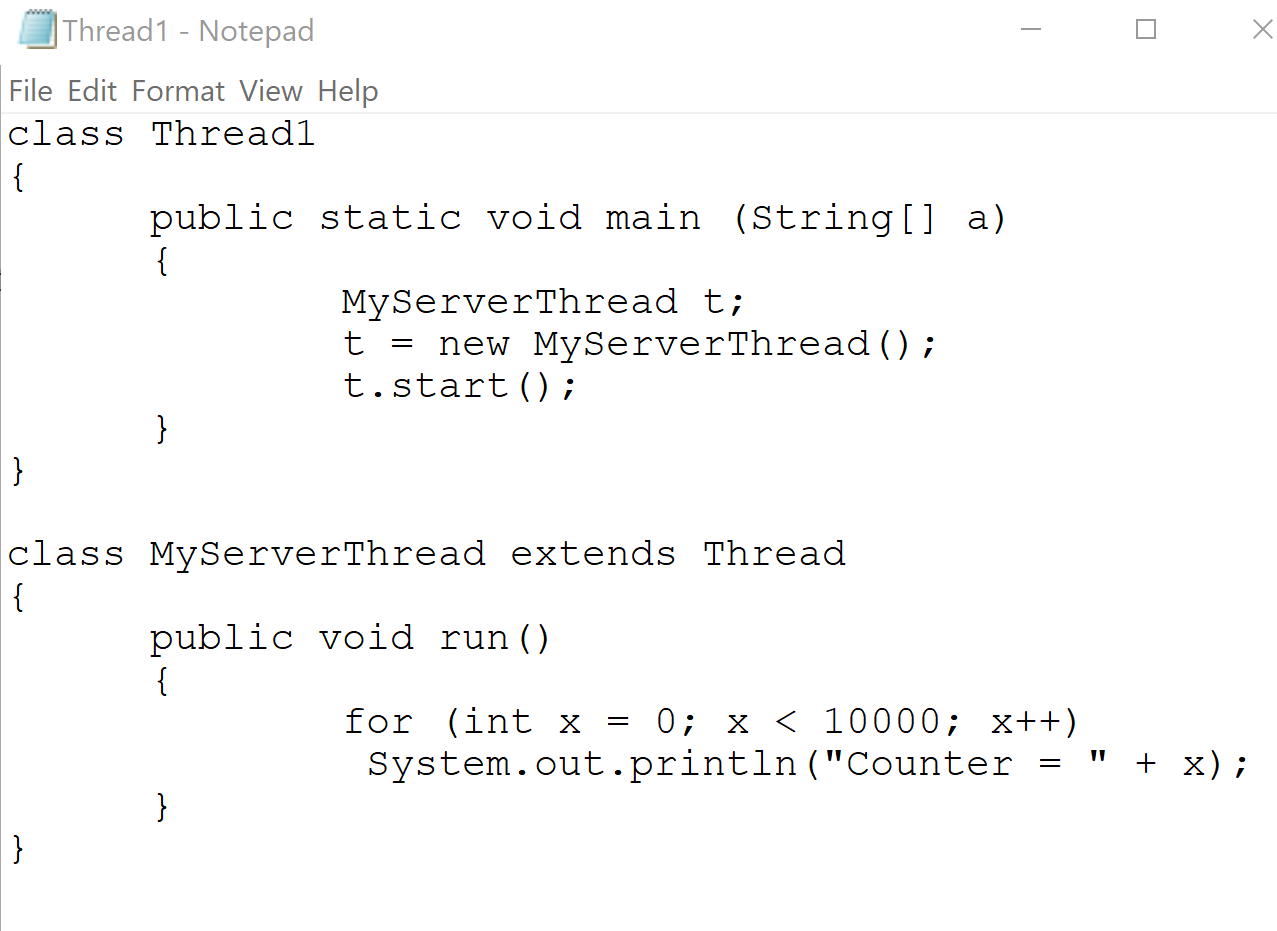
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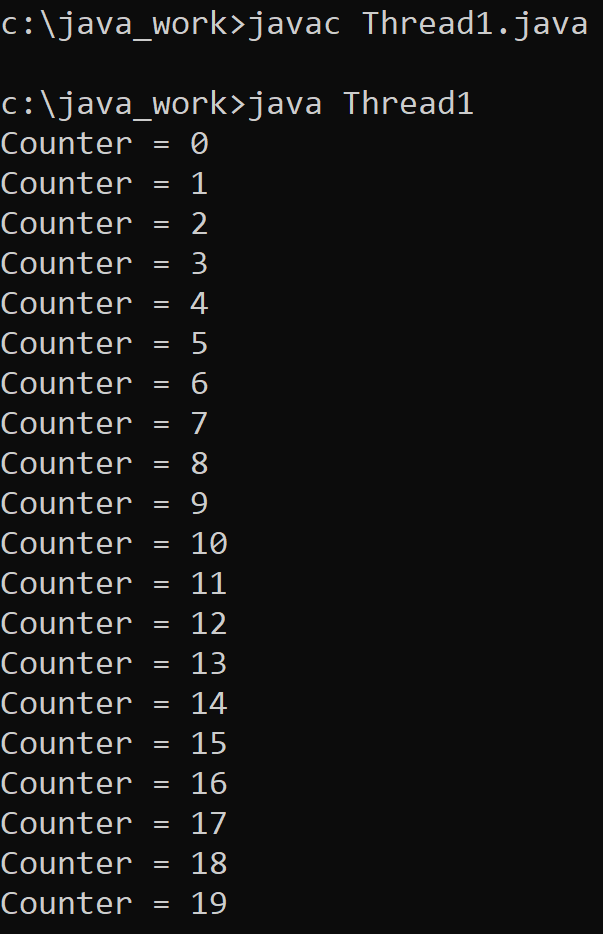
Work from <http://tfbor.com/02_725/06_a_MThreading_Polymorphism/725_06_Homework_ThrdsPrograms.doc>

# 1) Homework Threads.

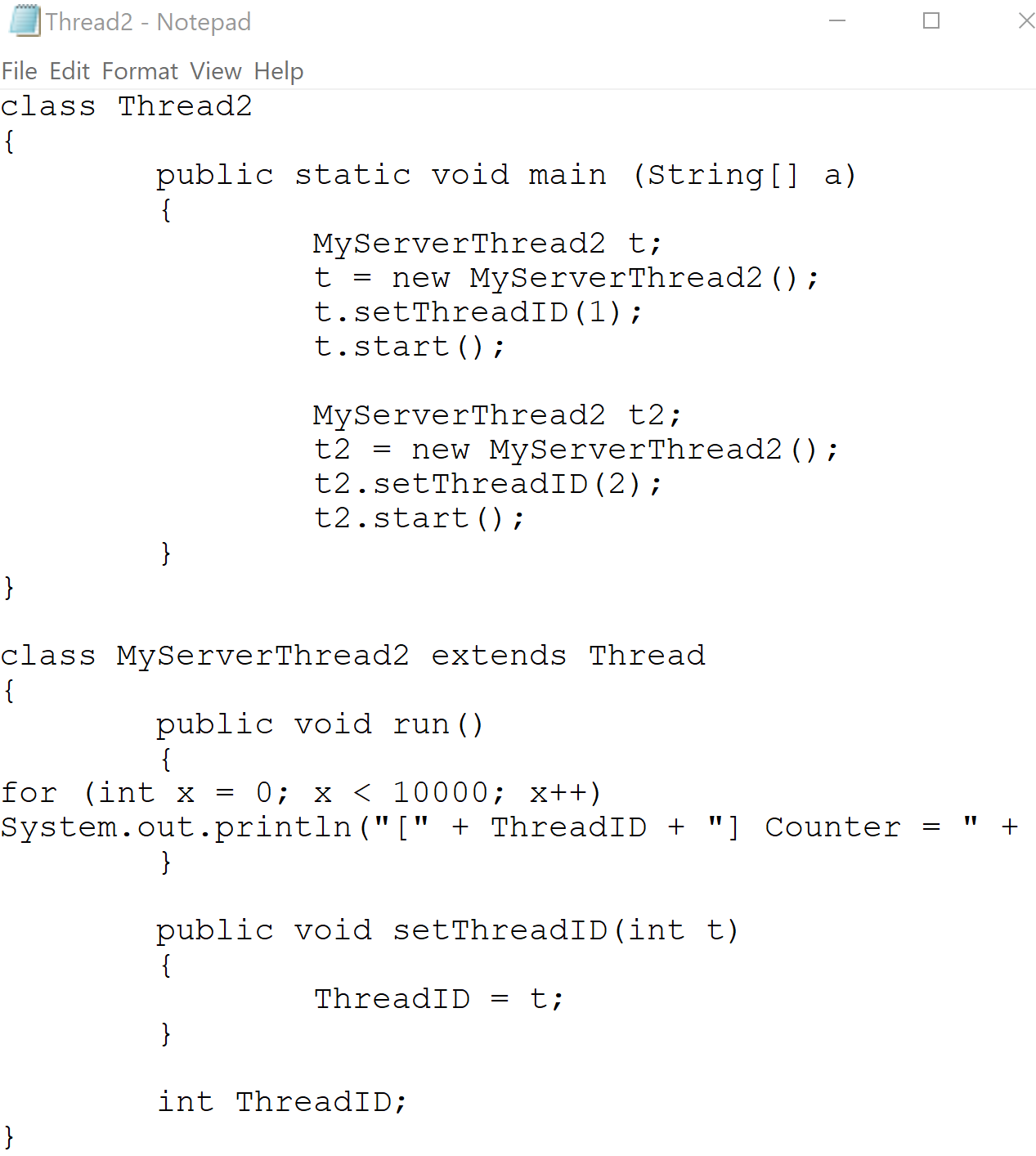
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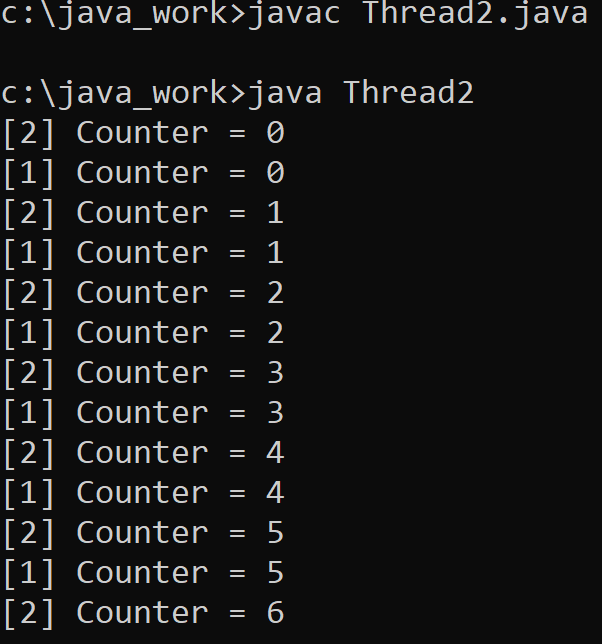
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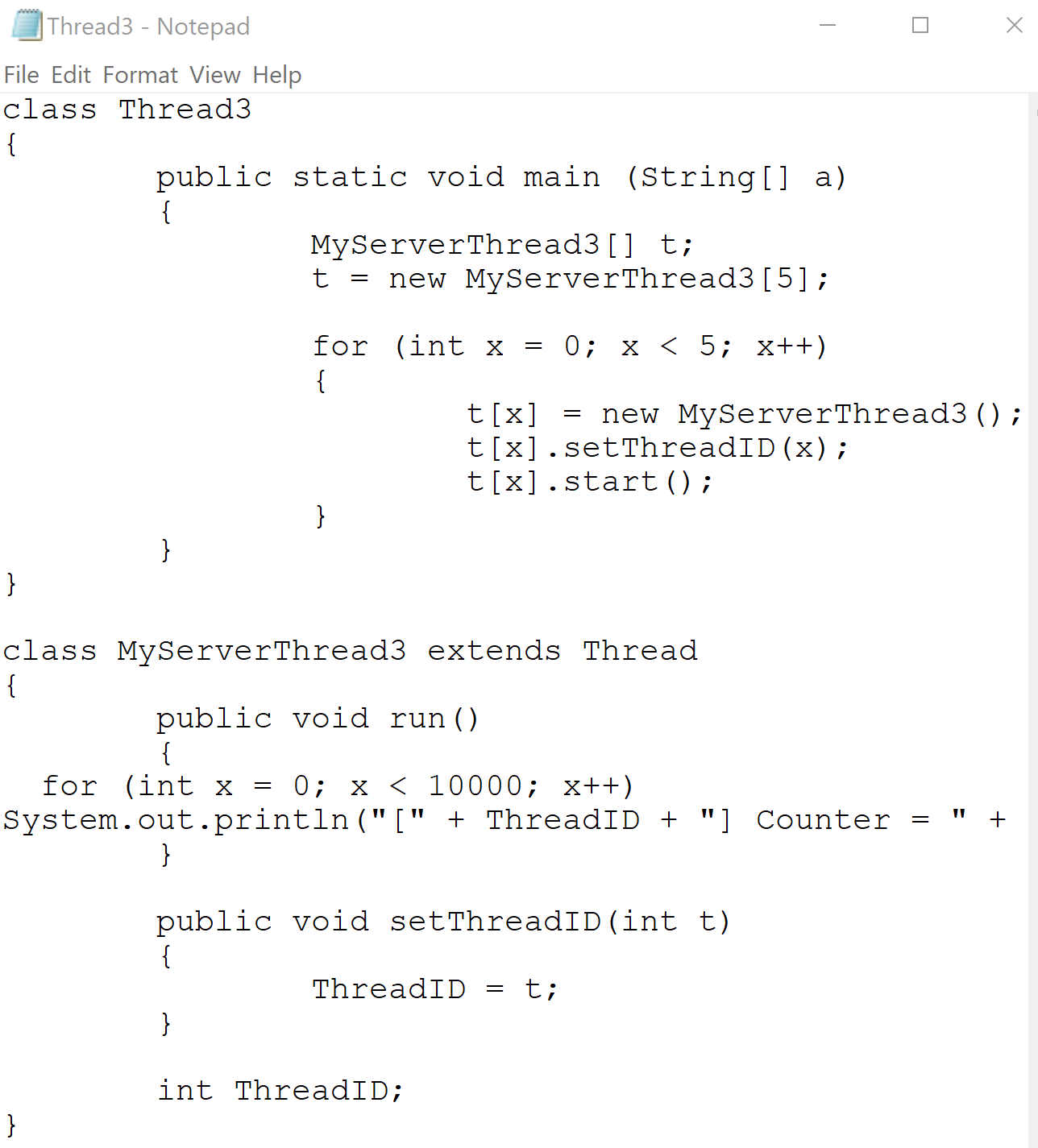
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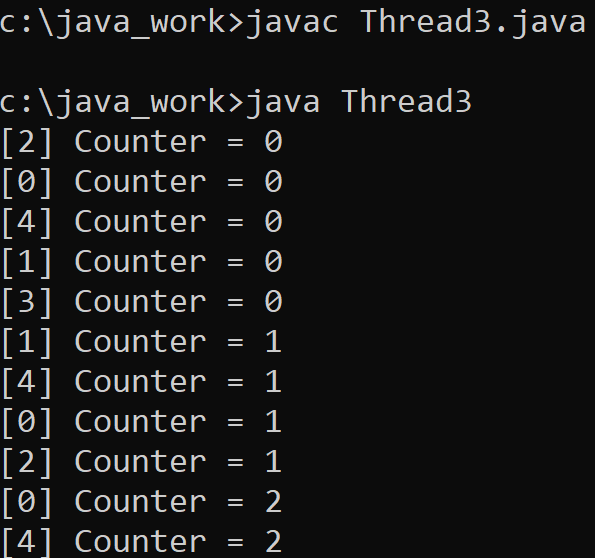
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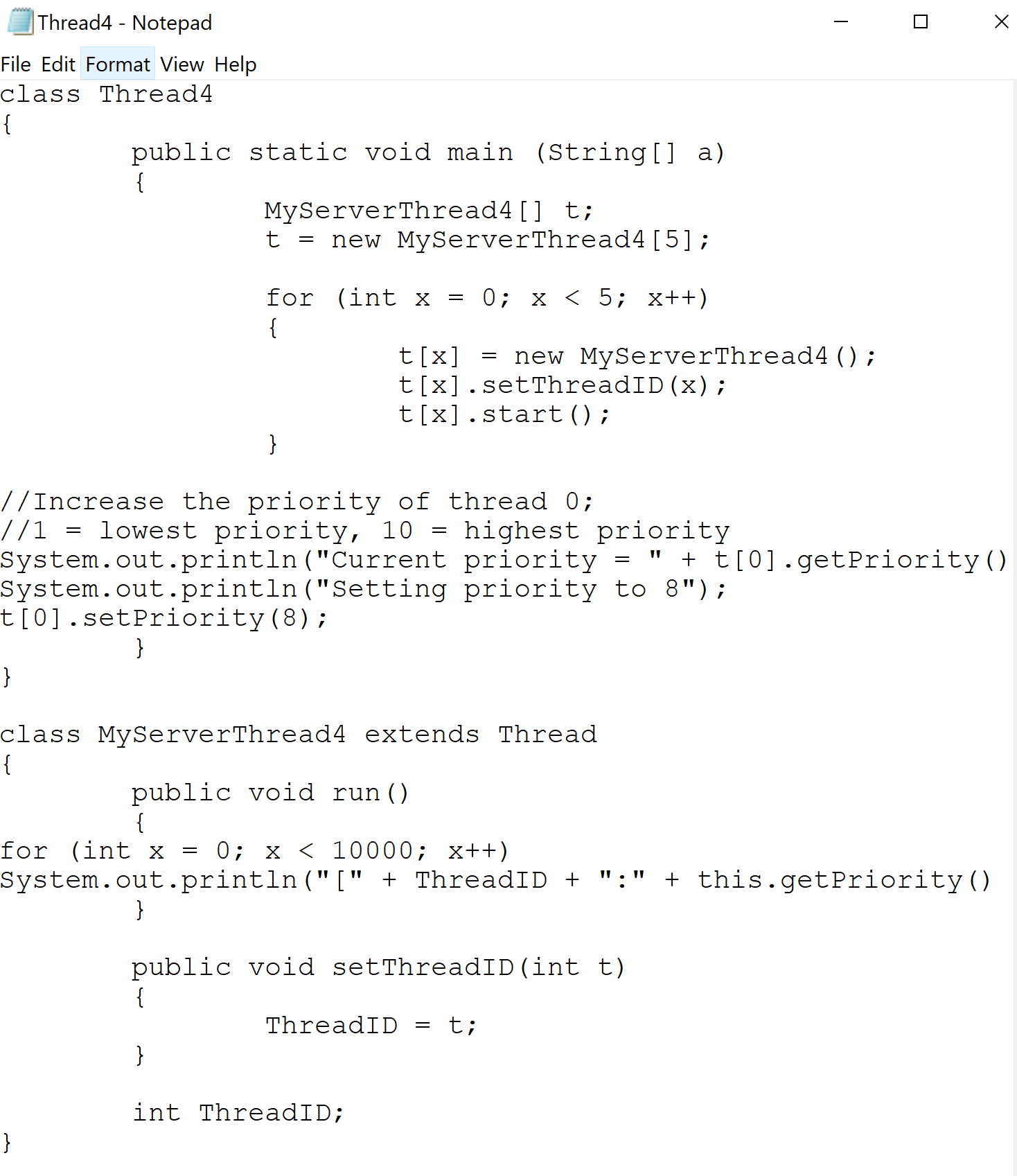
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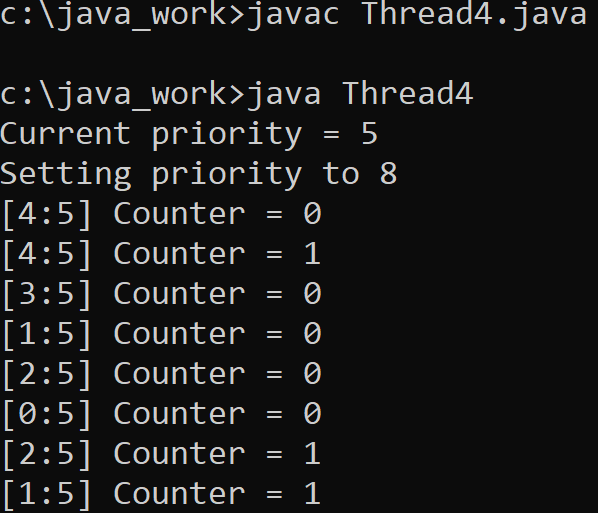
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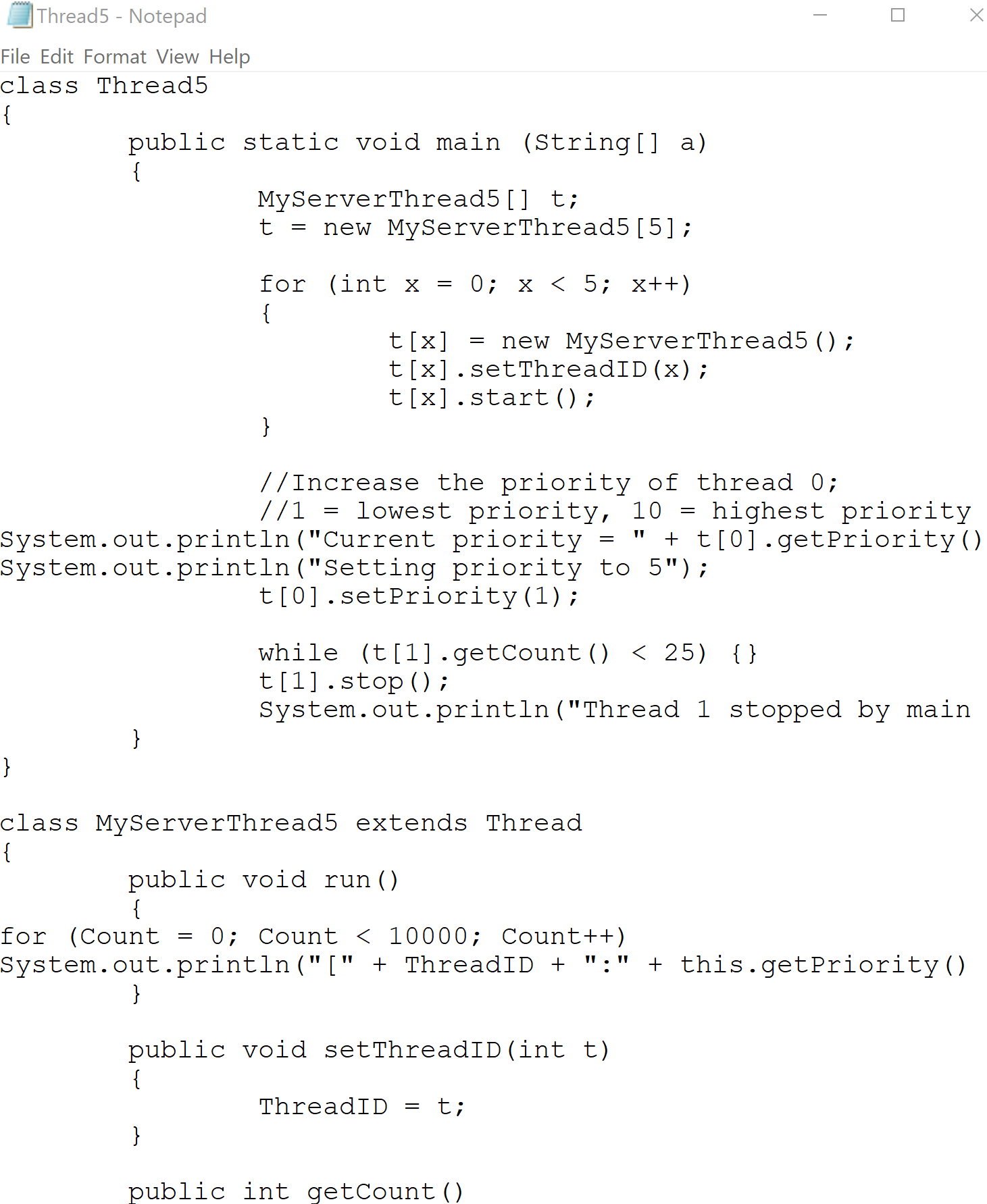
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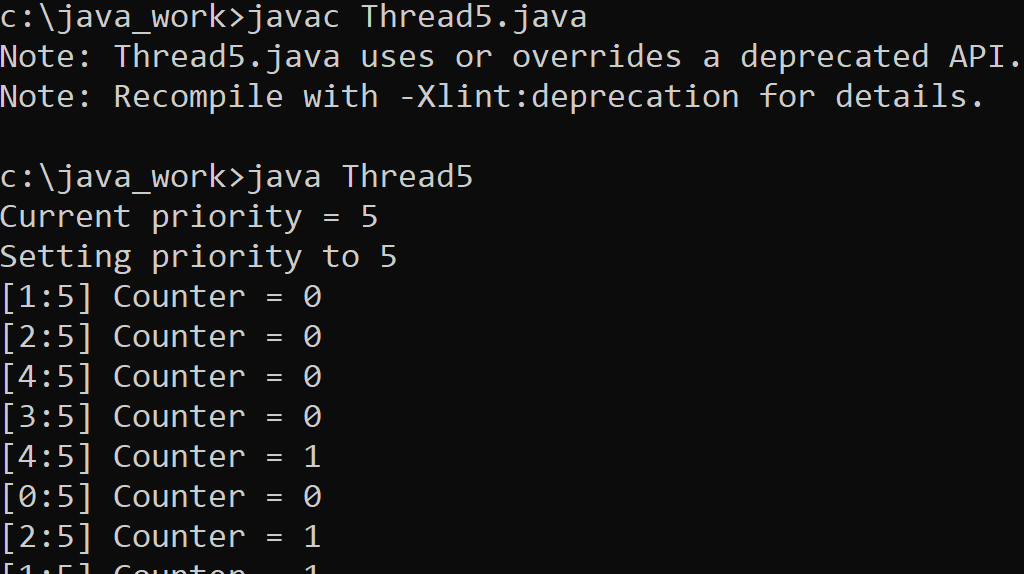
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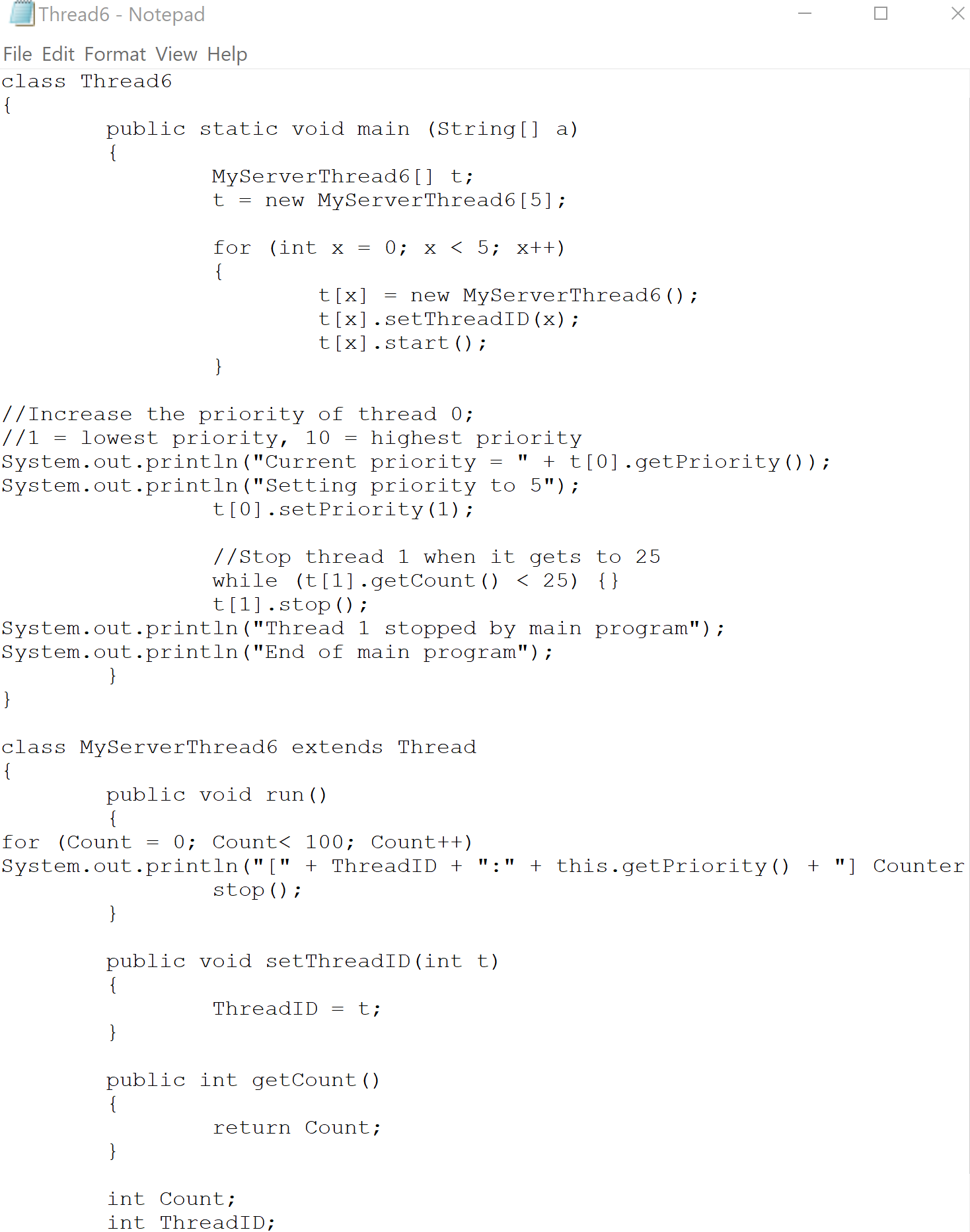
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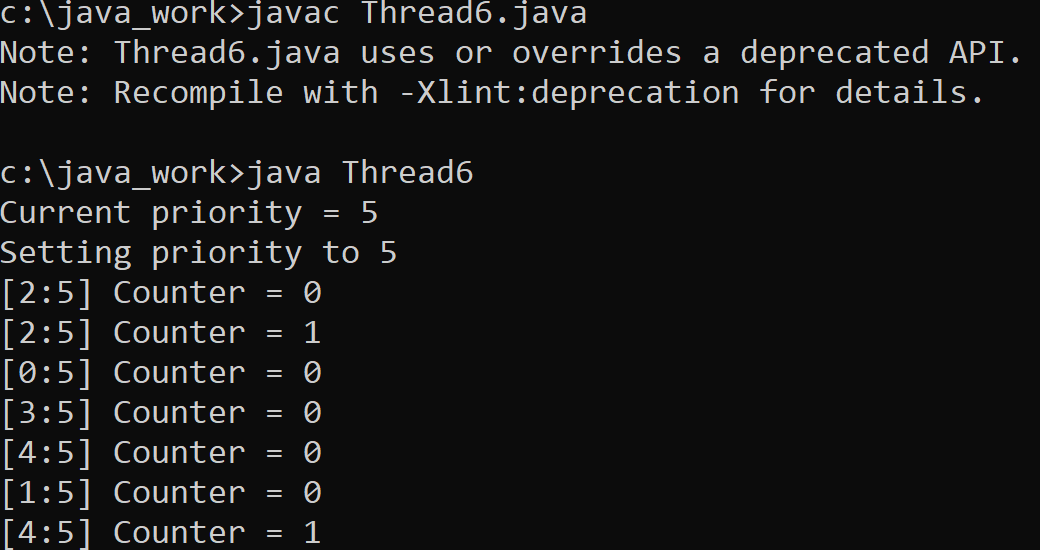
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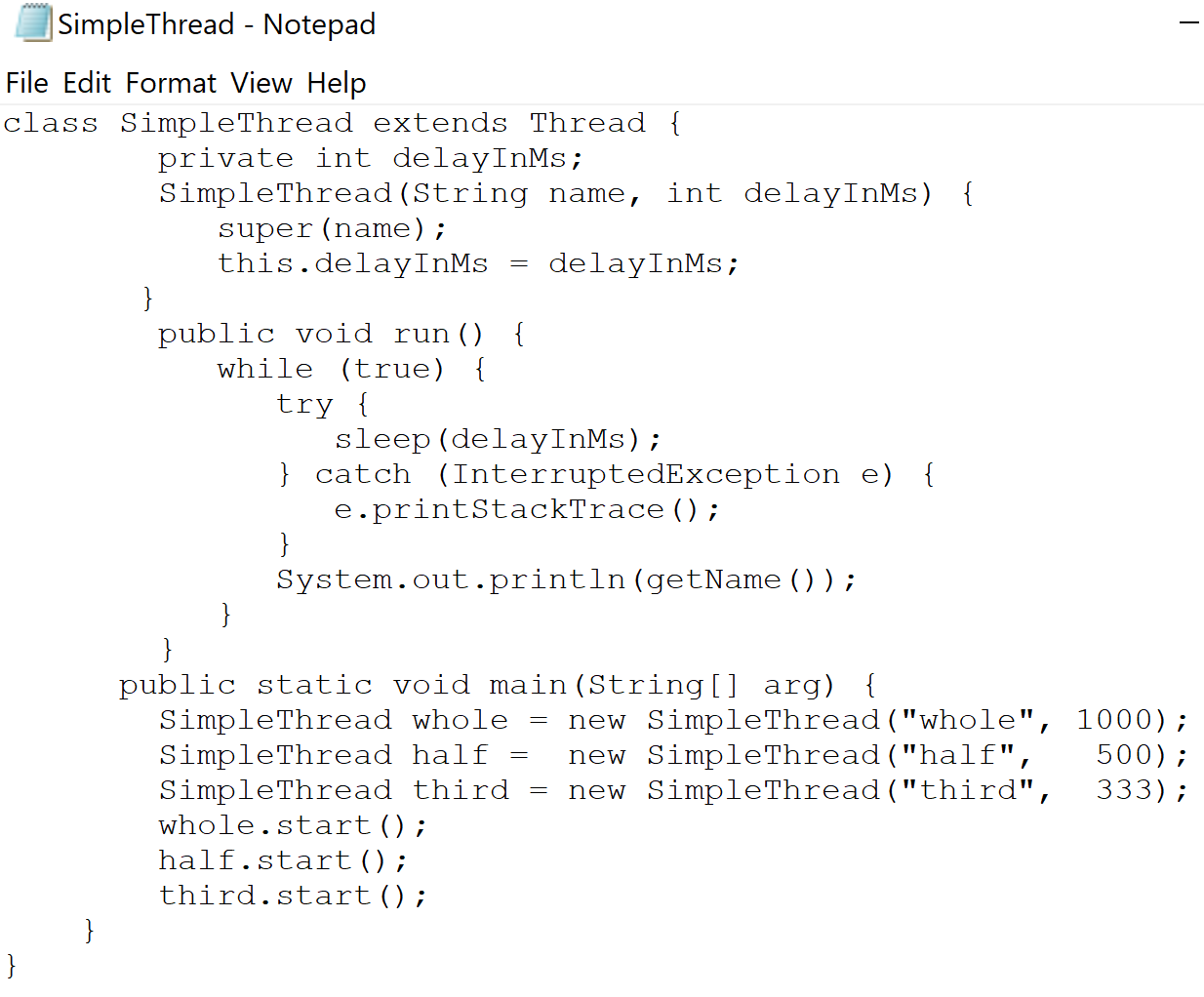
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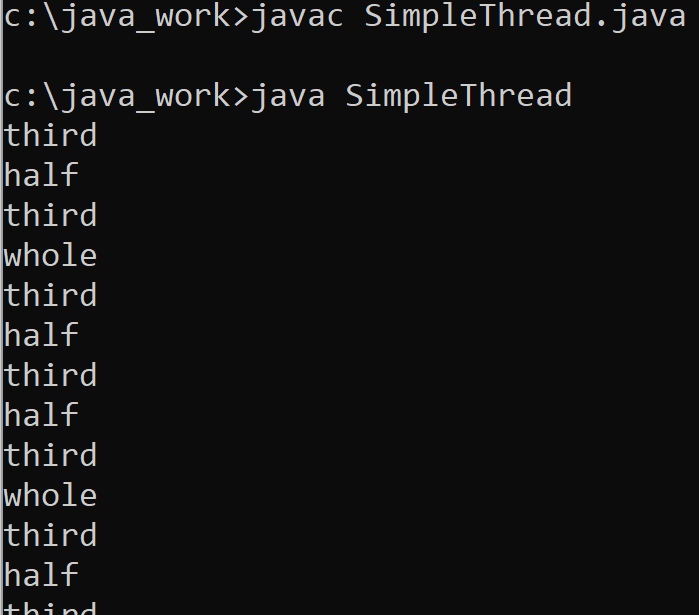
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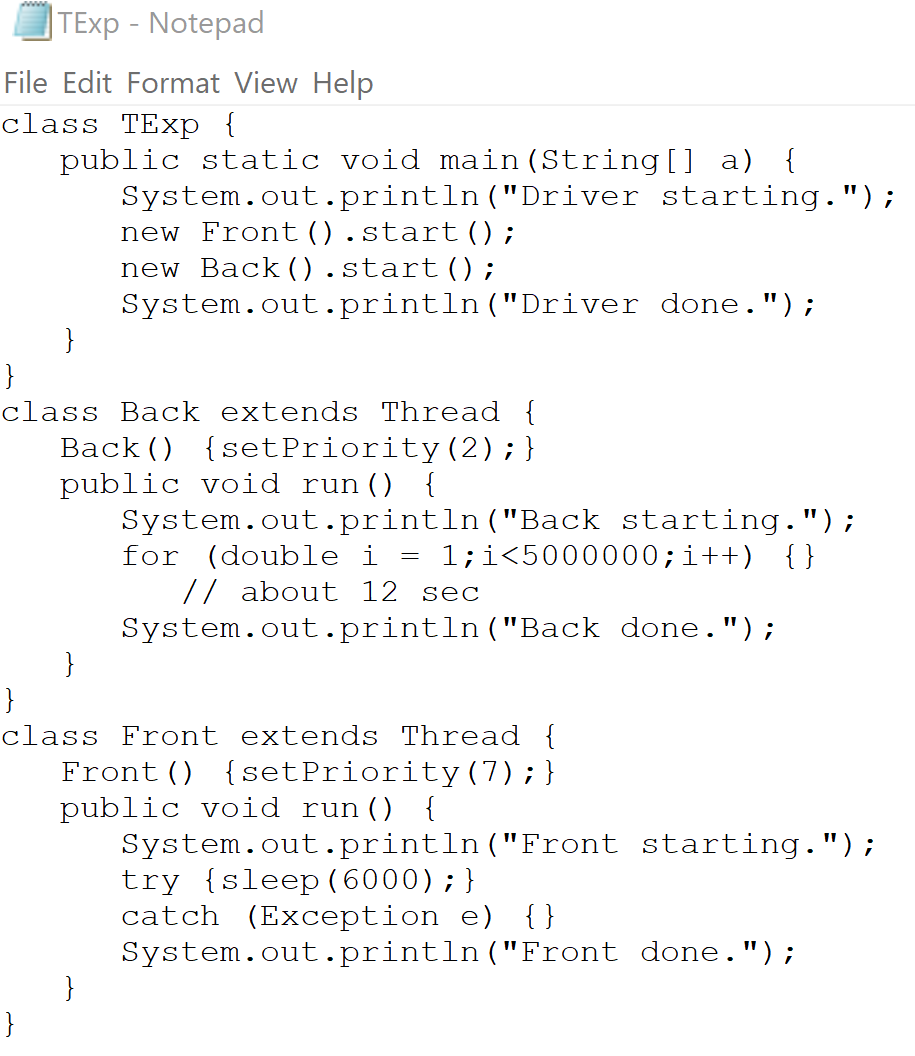
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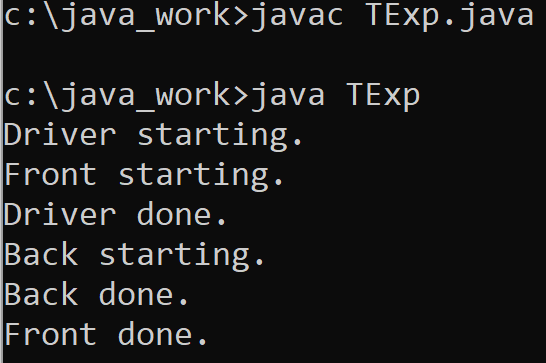
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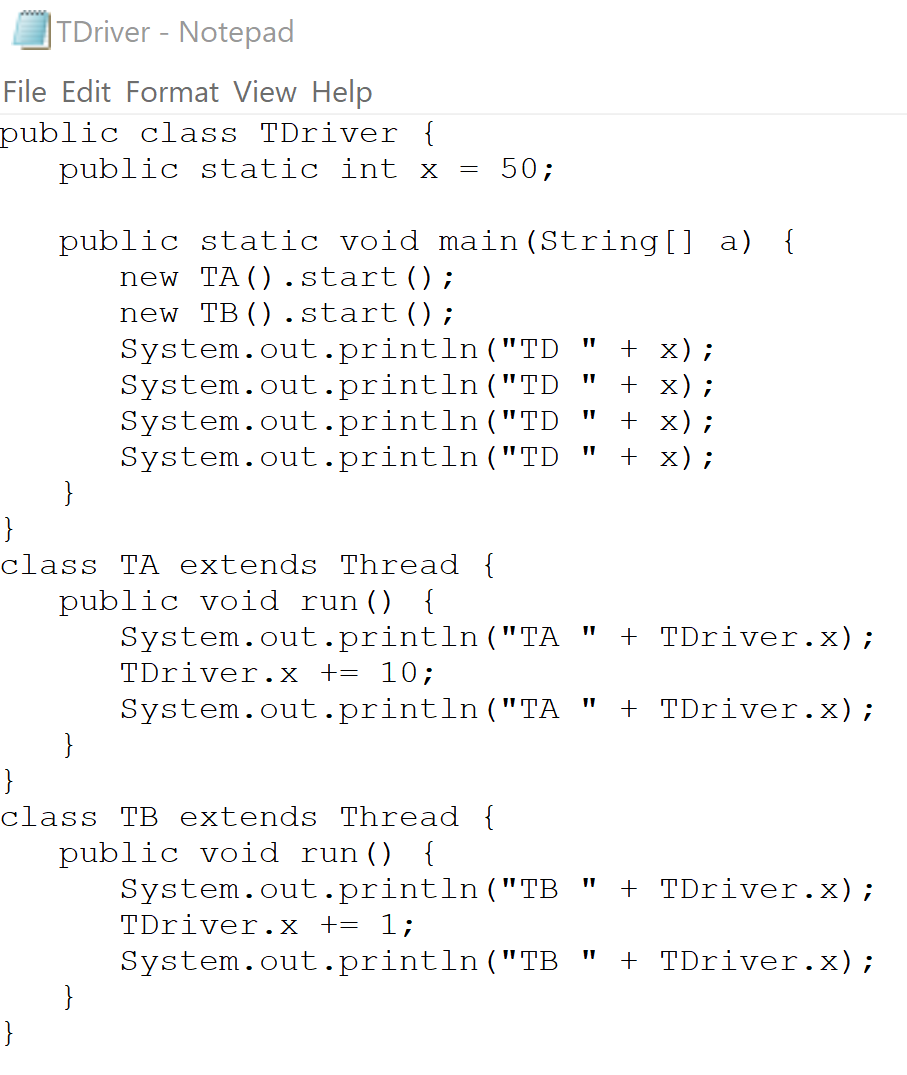
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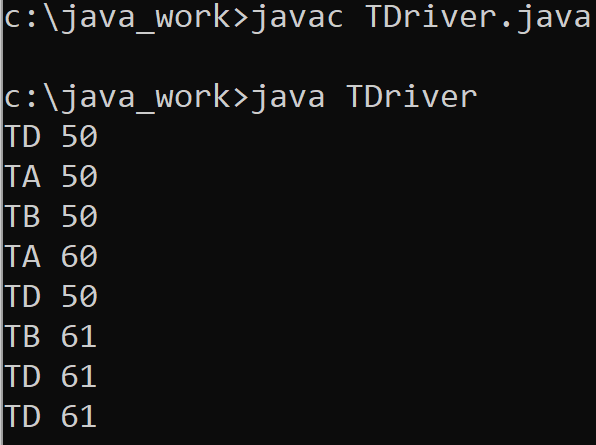
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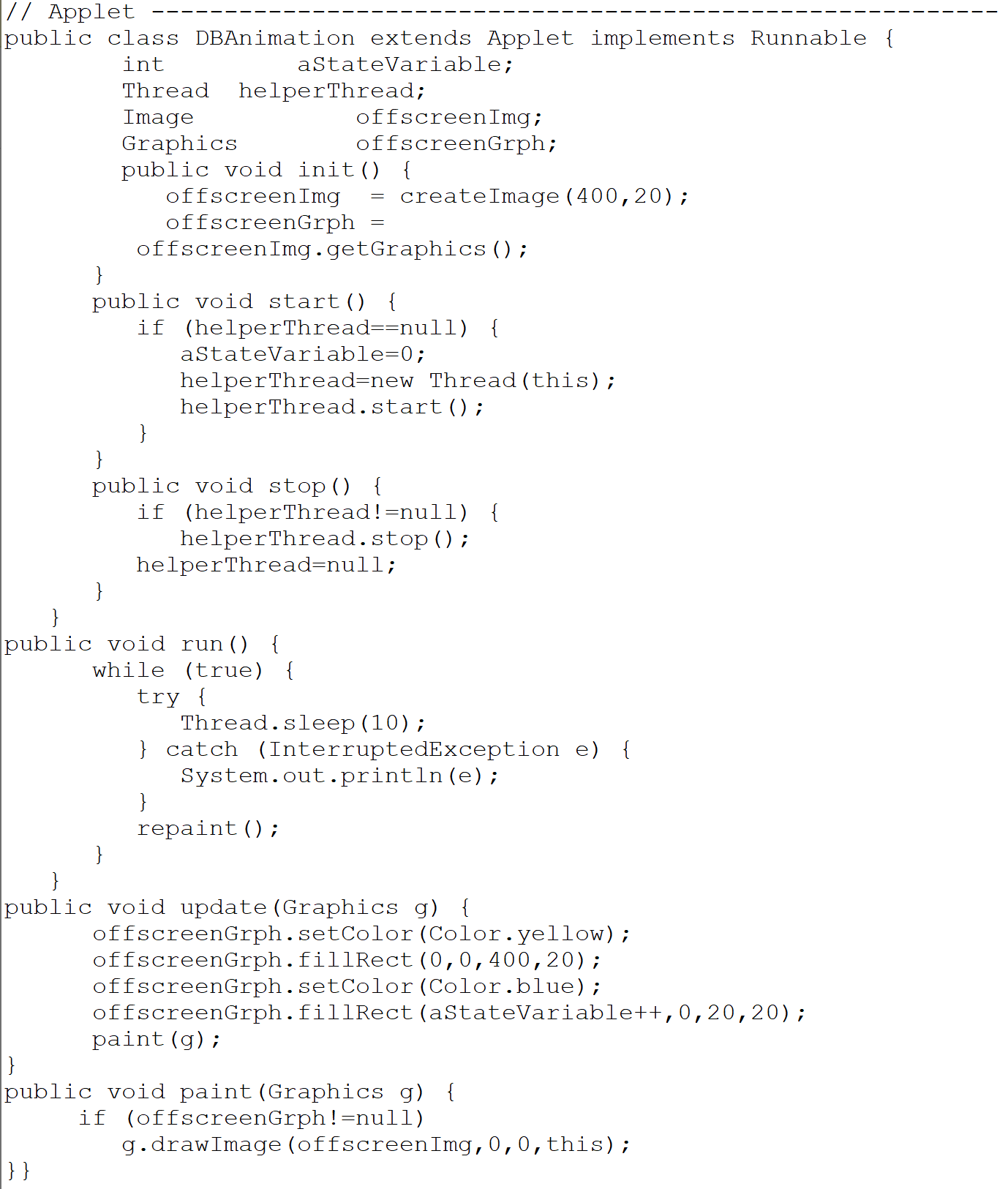
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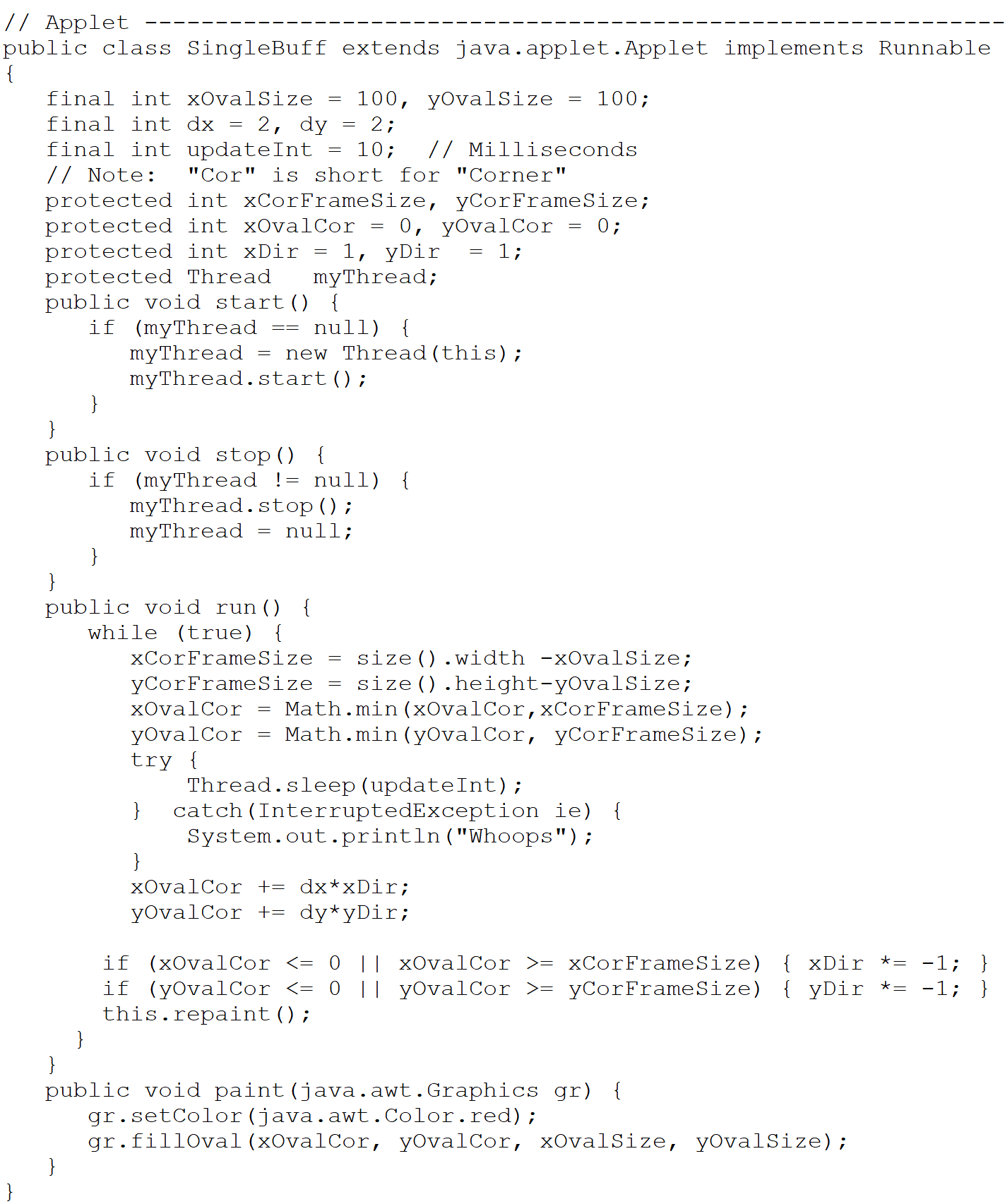


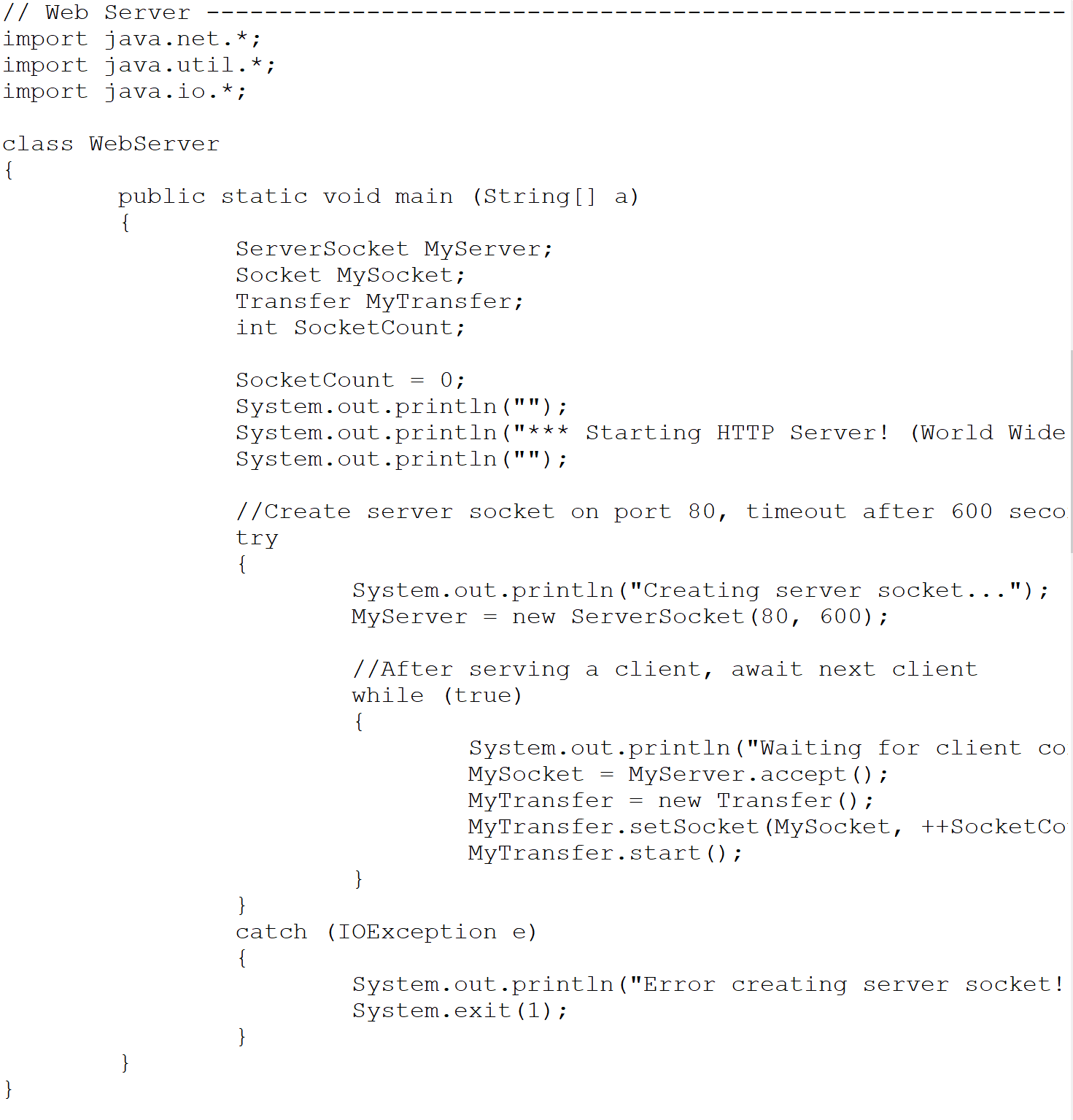
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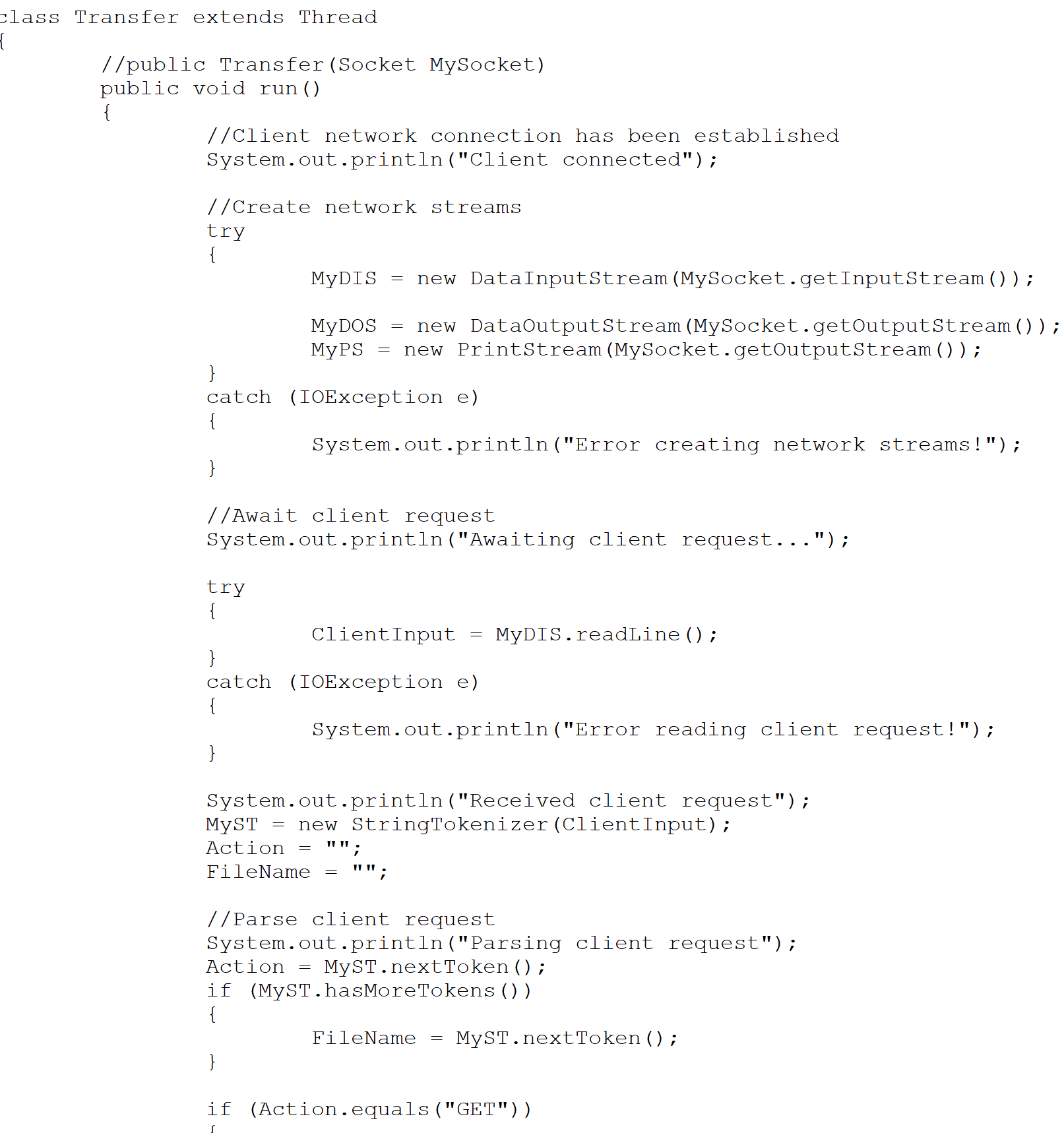


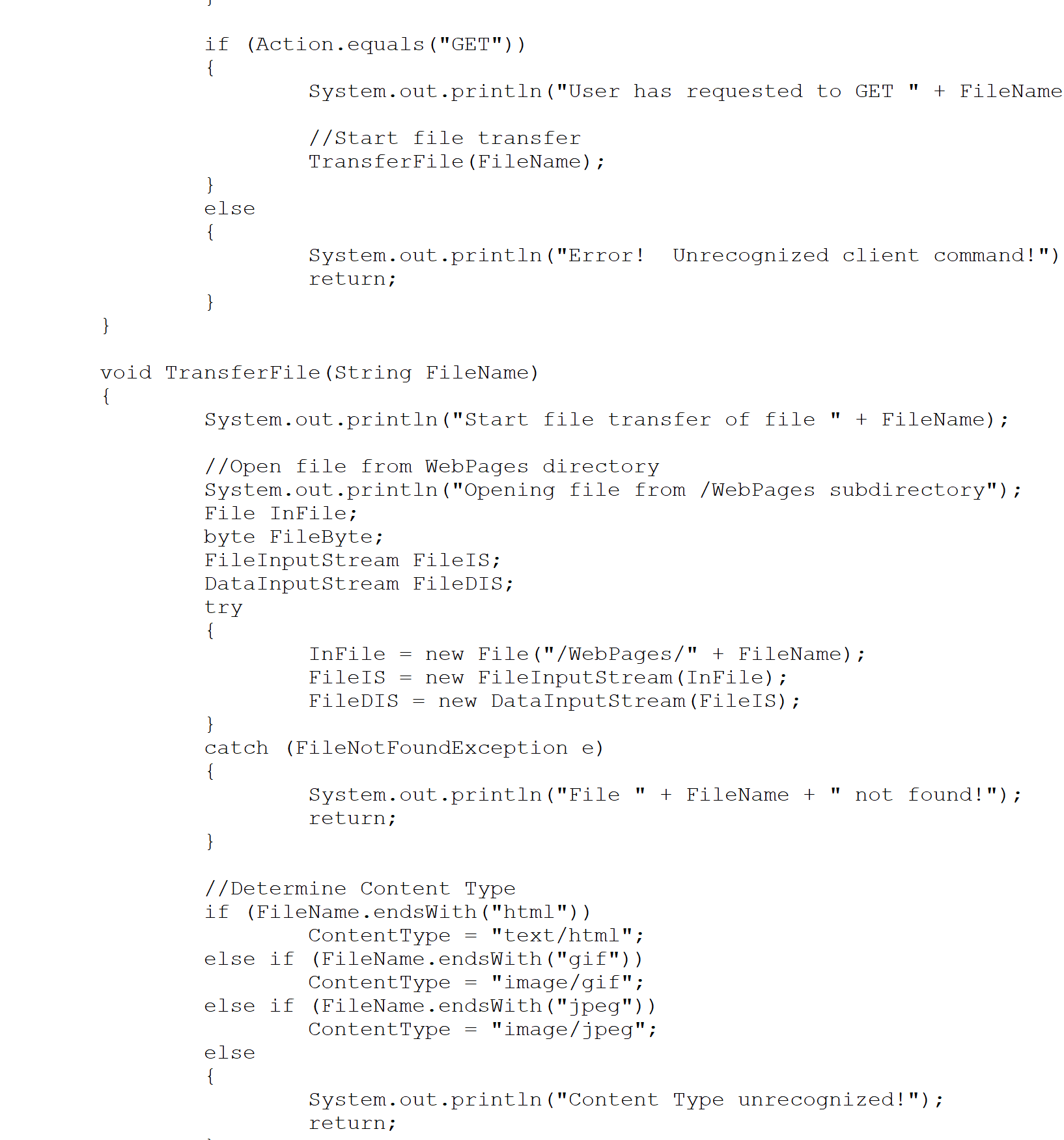
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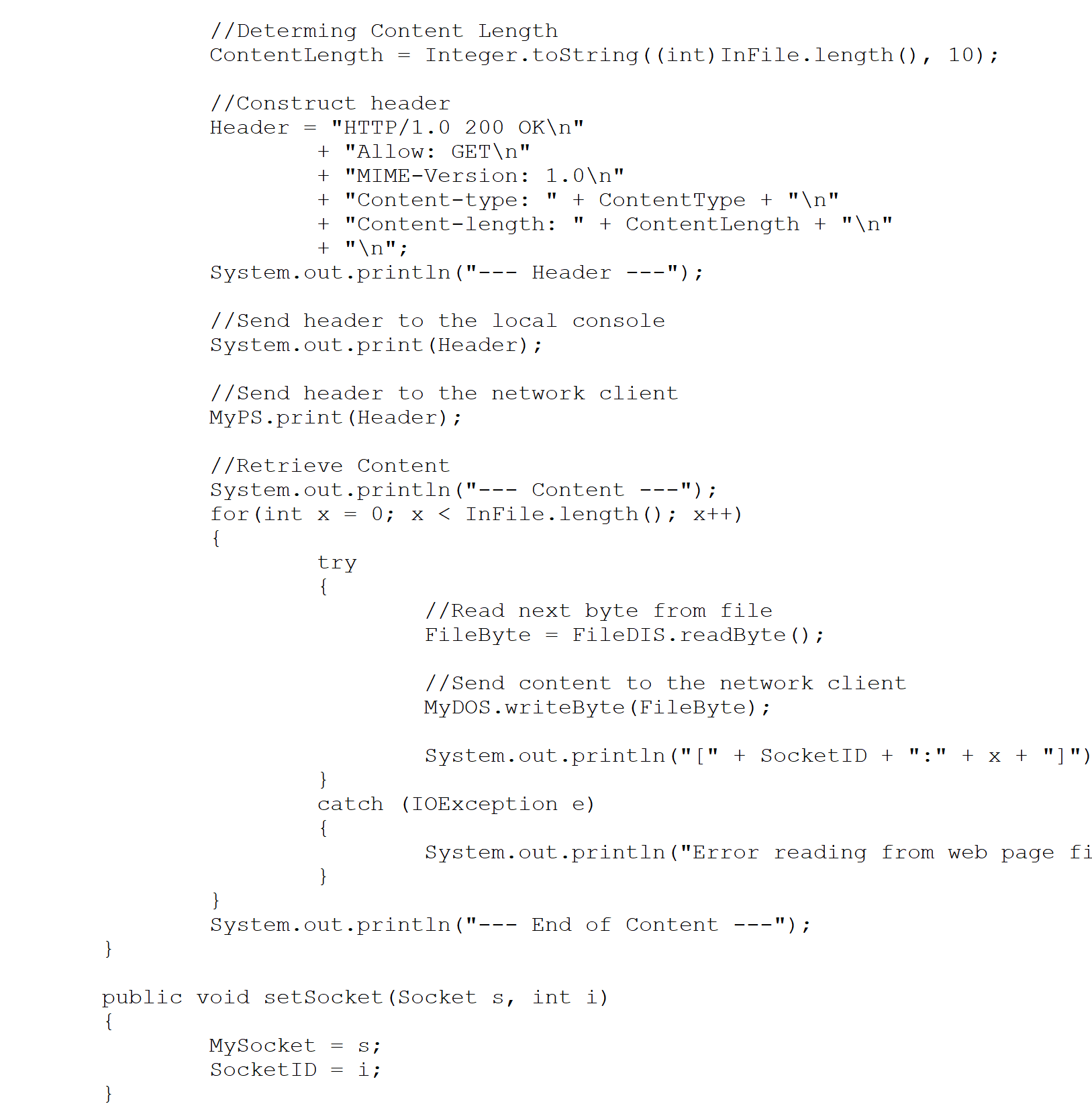


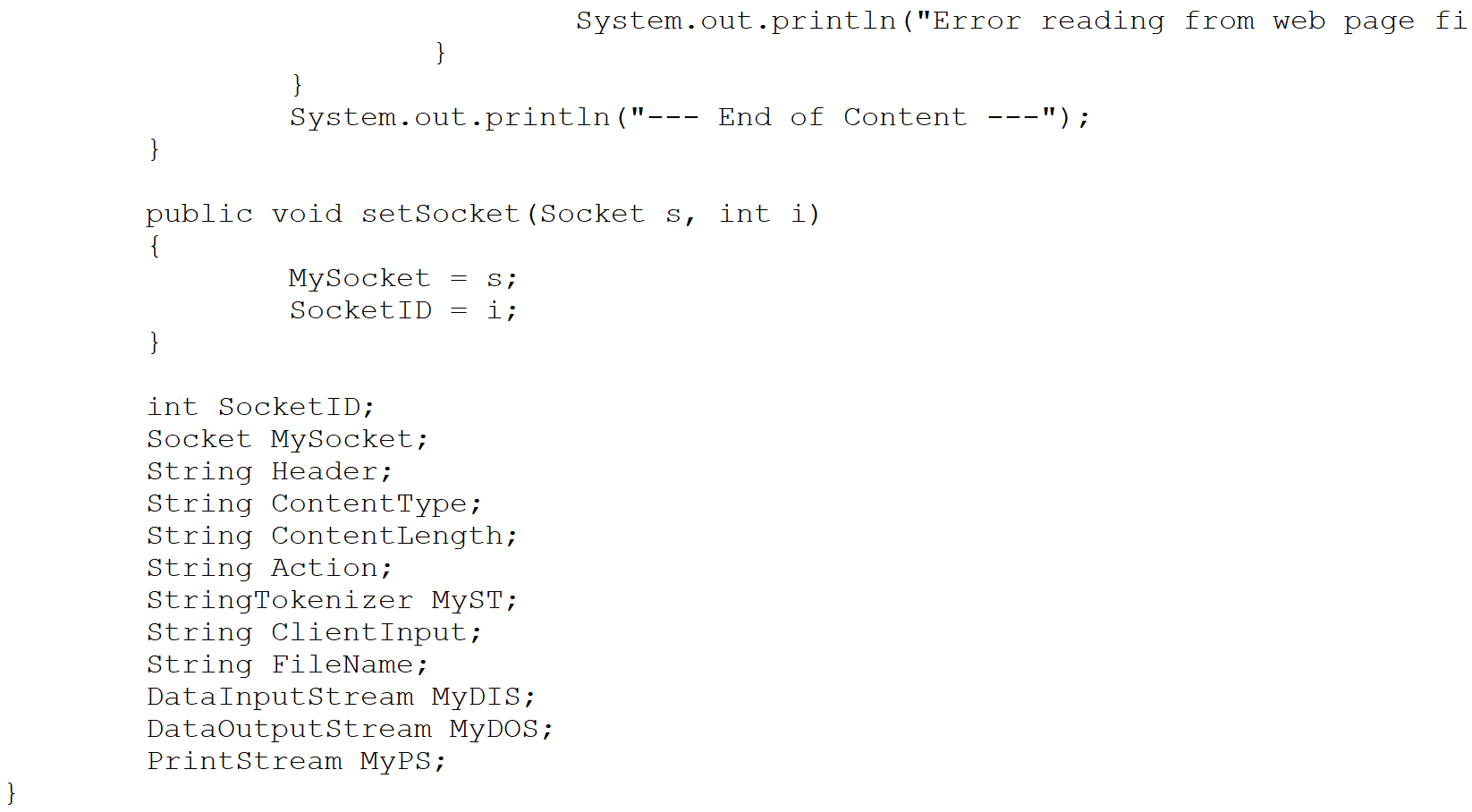




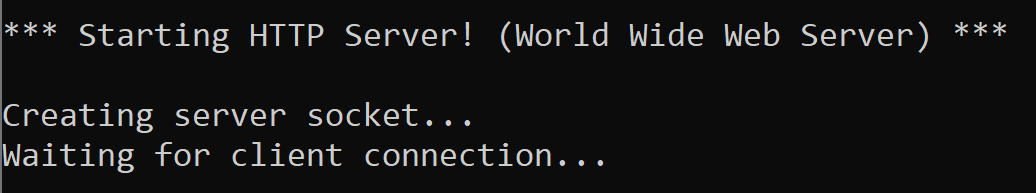








Result:

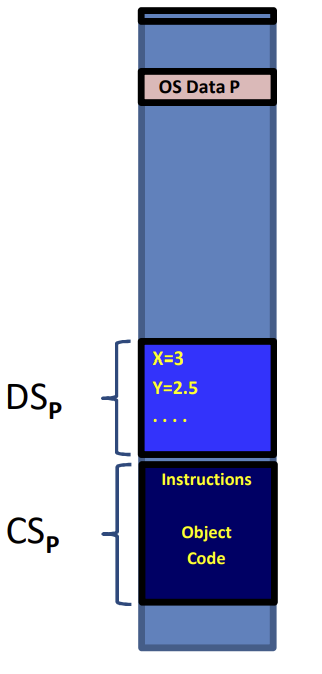


Work from [Microsoft PowerPoint - 725\_07\_Lect\_01\_Threads\_shshsh.pptx (tfbor.com)](http://tfbor.com/02_725/06_a_MThreading_Polymorphism/725_06_Lecture_01_Threads_sh.pdf)

# 2) Question: Program at RT

## - What does program become at Run Time (RT)?

Answer) A computing process or simply a process.



# 3) Question: Thread and thread’s RTS.

## - Why does each thread must have individual run time stack, RTST?

Answer)

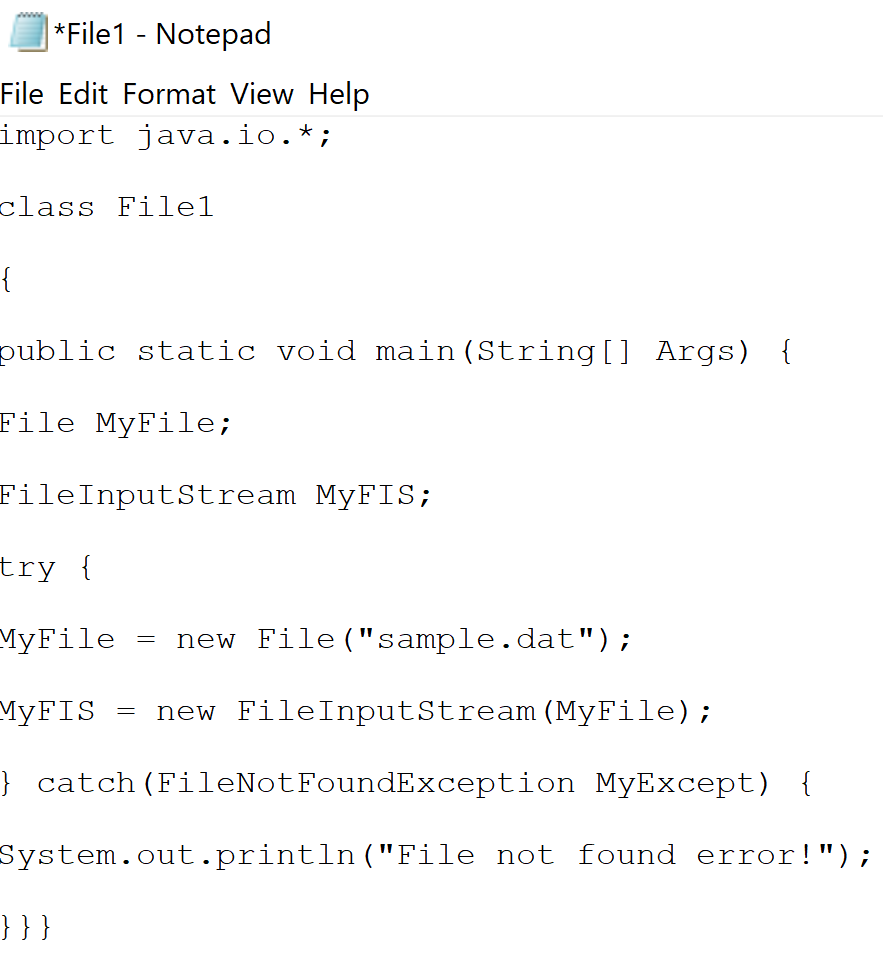
• To be programmed as a modular program made up of functions (OOP methods).

• At run time, to call functions and return,

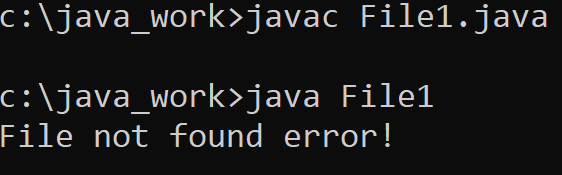
– Each call and return must be supported by an RTS which is used as a mail box between the thread’s internal functions.

# 4) Class Wrapping homework codes.

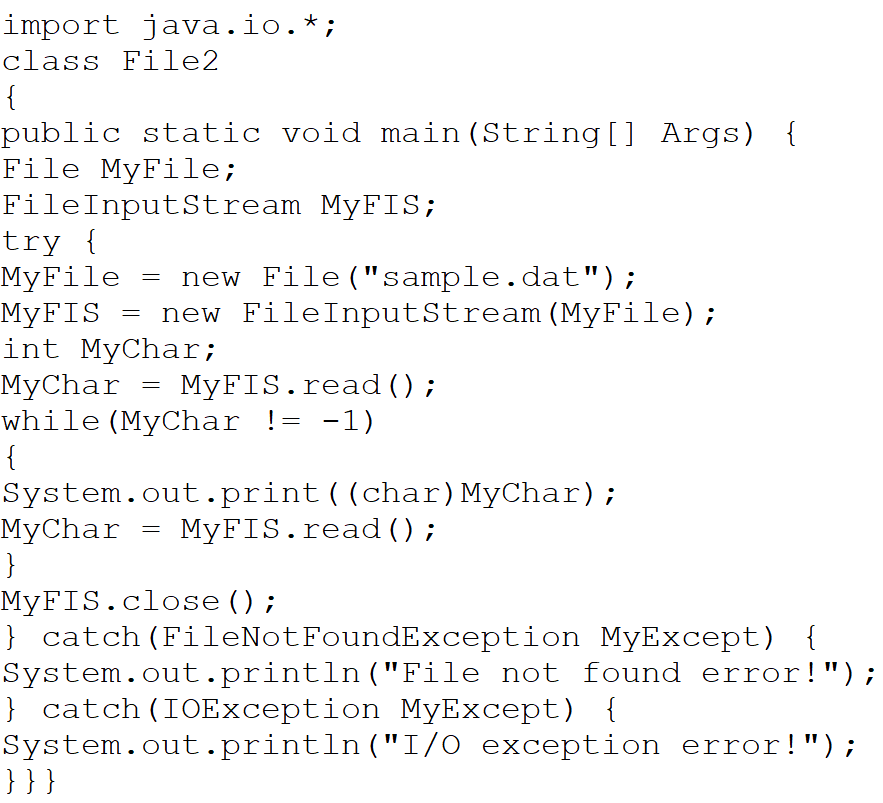
## File1.java



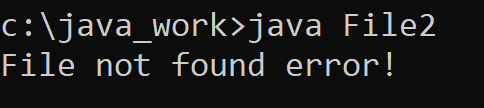
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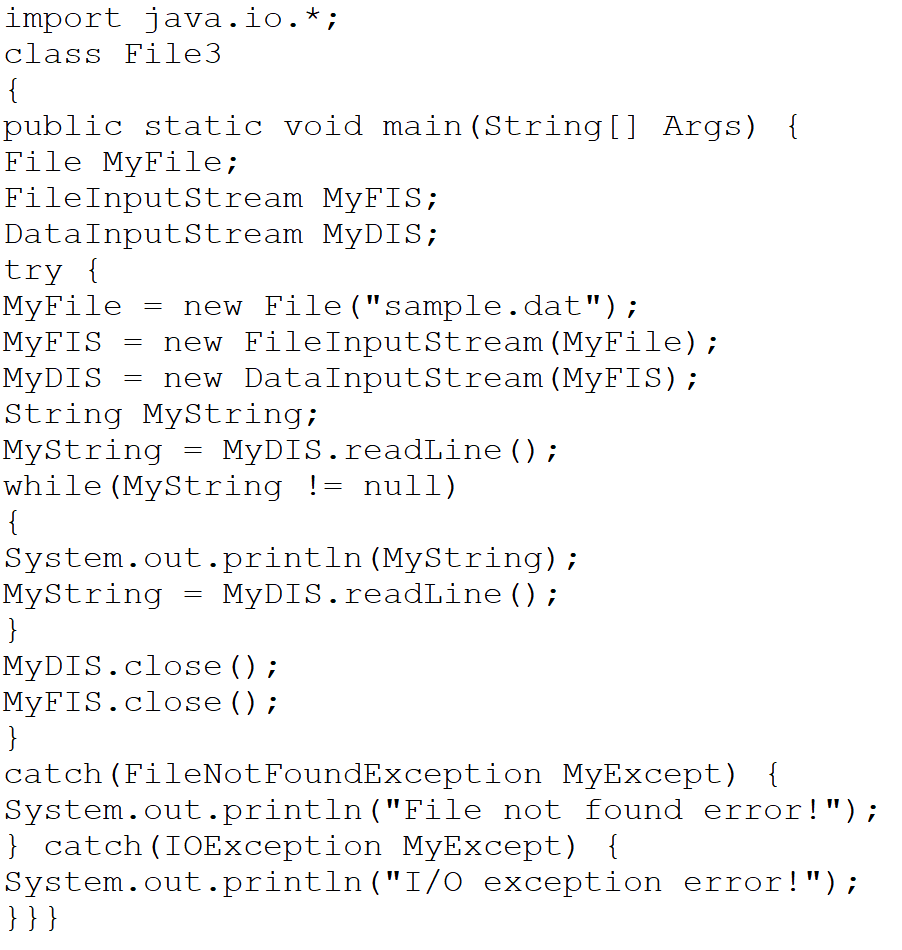
## 2) File2.java



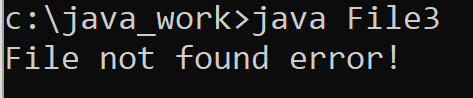
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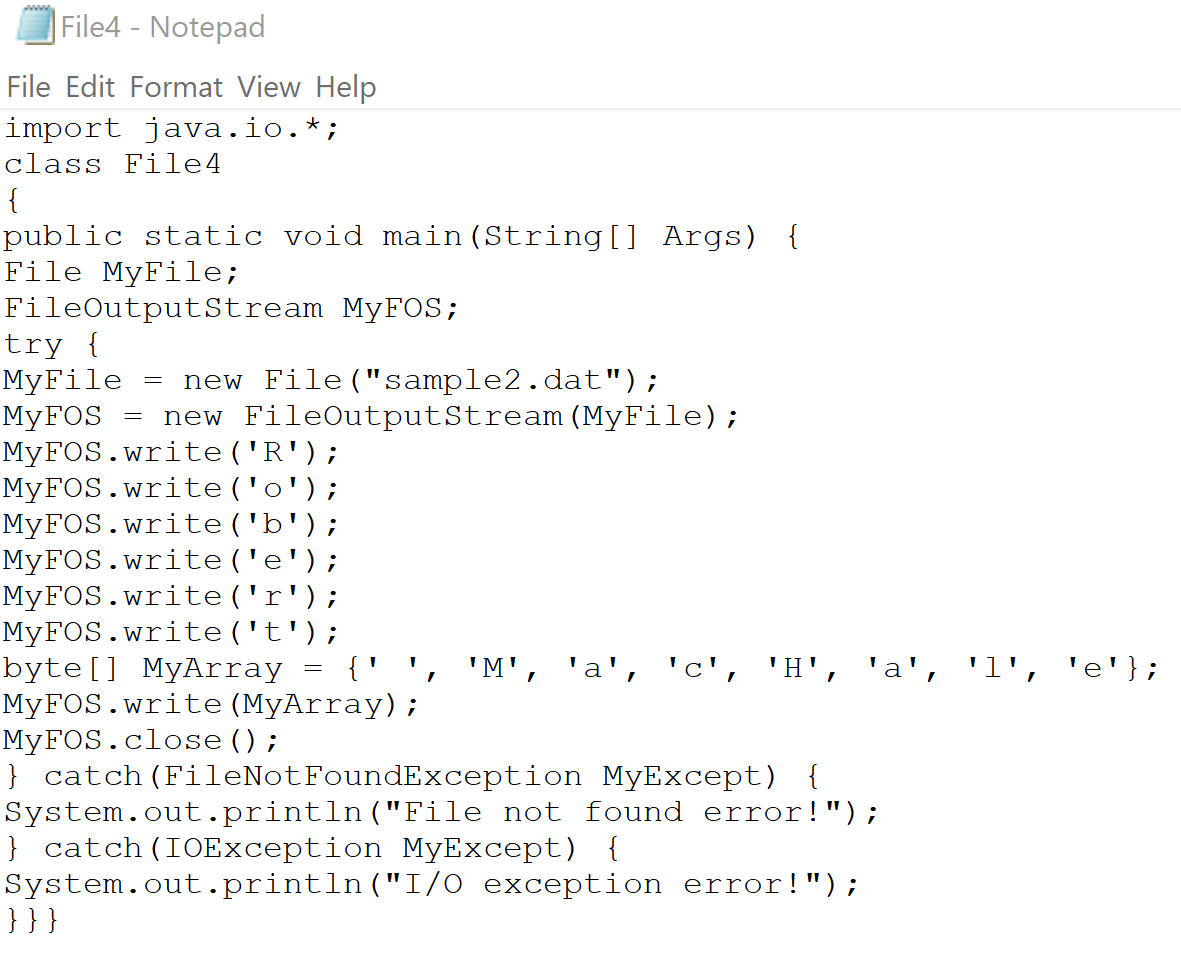
## 3) File3.java



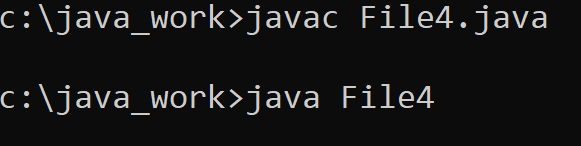
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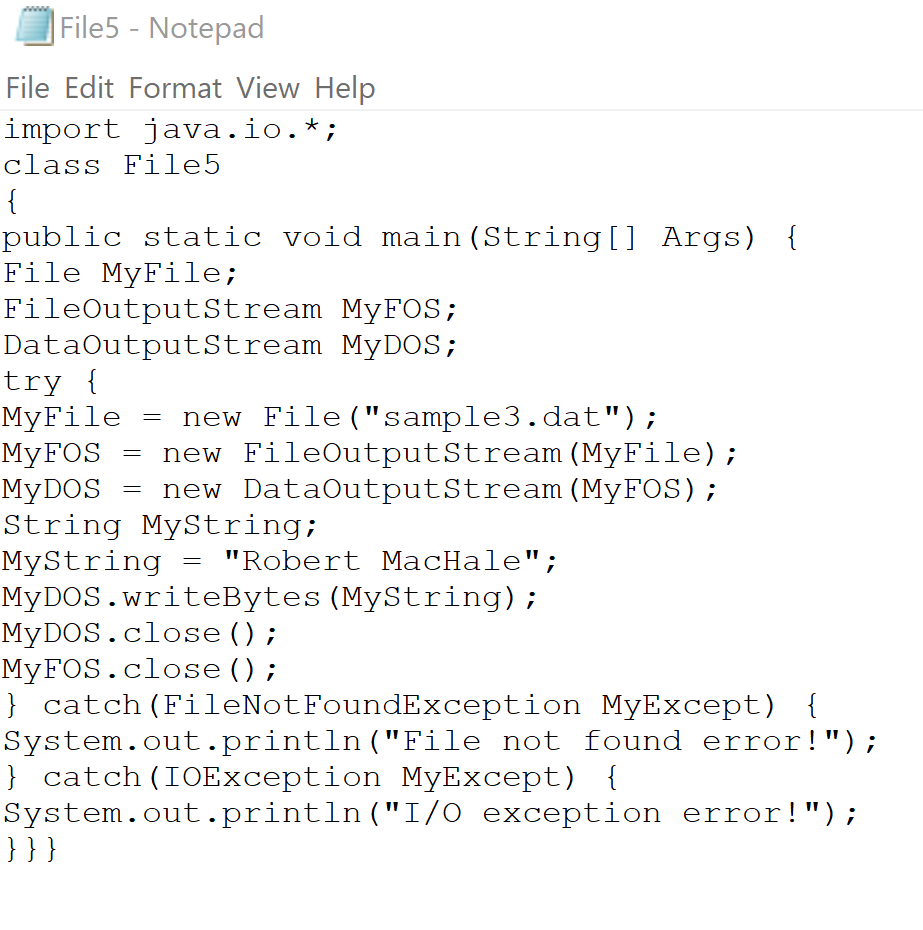
## 4) File4.java



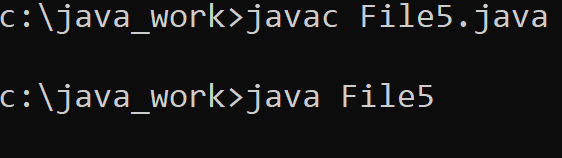
Result:



## 5) File5.java



Result:



# References

[1] [Microsoft PowerPoint - 725\_07\_Lect\_01\_Threads\_shshsh.pptx (tfbor.com)](http://tfbor.com/02_725/06_a_MThreading_Polymorphism/725_06_Lecture_01_Threads_sh.pdf)

[2] [725\_06\_Homework\_01\_FileIO.doc (live.com)](https://view.officeapps.live.com/op/view.aspx?src=http%3A%2F%2Ftfbor.com%2F02_725%2F06_b_IO_ClassWrapping_%2F725_06_Homework_01_FileIO.doc&wdOrigin=BROWSELINK)

[3] [Polymorphism (The Java™ Tutorials > Learning the Java Language > Interfaces and Inheritance) (oracle.com)](https://docs.oracle.com/javase/tutorial/java/IandI/polymorphism.html)