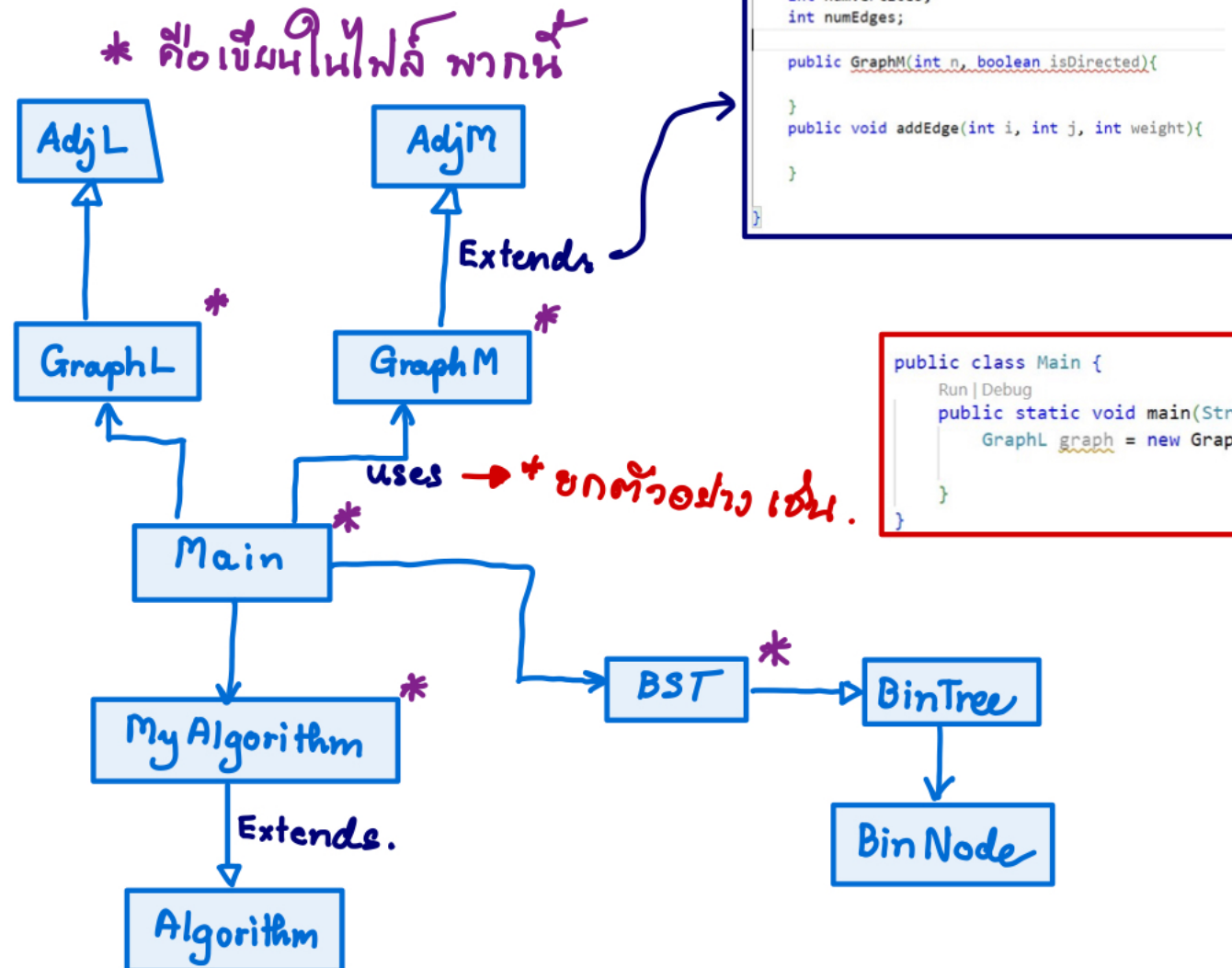


# Code Structures

CPE231 Algorithms 1 / 2025

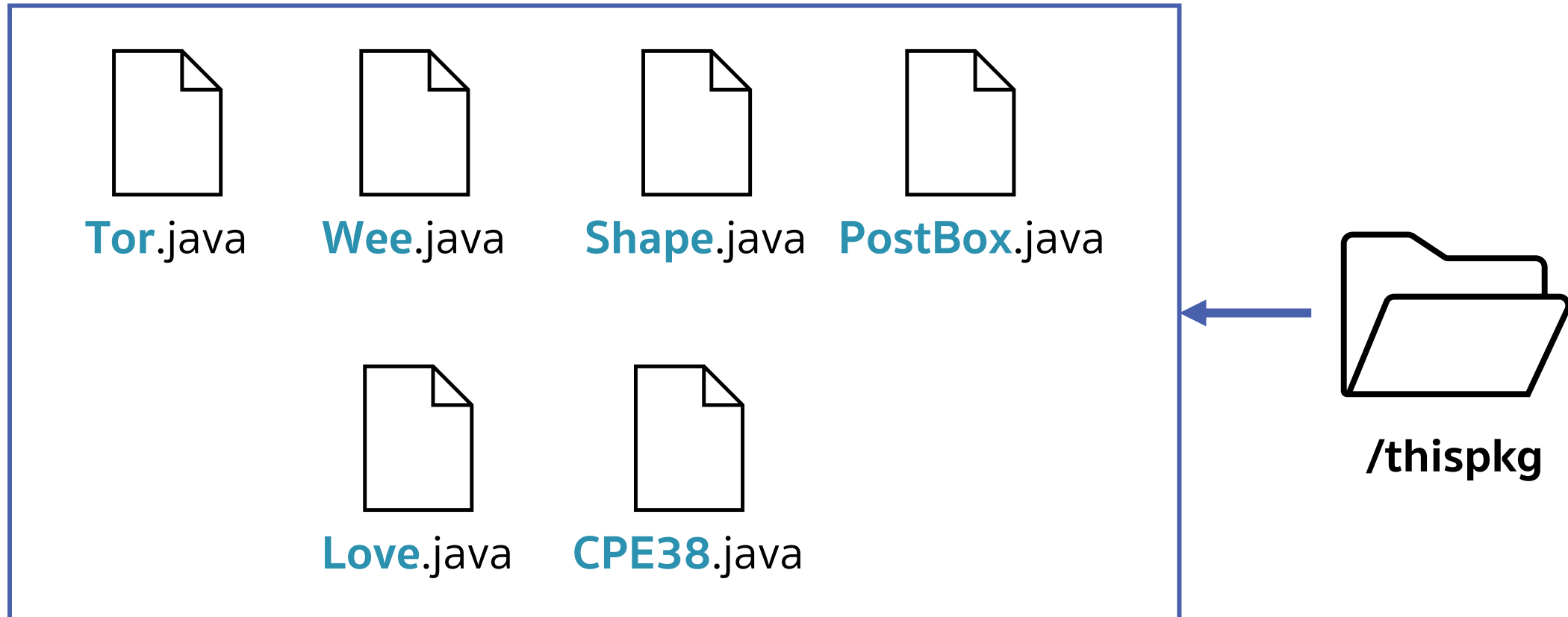
[29<sup>th</sup> Aug 2025]

# Previously...



# Introducing “Package”

- Think about **Folders** containing many Java files (classes).



# Introducing “Package”

**Project/Repository directory**

dev

← → ↑ ↻ > This PC > Local Disk (C:) > Folders > DataStruct > dev

Package name

Name	Date modified	Type	Size
AdjL.java	28/8/2025 14:32	Java Source File	1 KB
AdjM.java	28/8/2025 14:32	Java Source File	1 KB
Algorithm.java	28/8/2025 14:32	Java Source File	1 KB
BinNode.java	28/8/2025 14:32	Java Source File	1 KB
BinTree.java	28/8/2025 14:32	Java Source File	1 KB
BST.java	28/8/2025 14:32	Java Source File	1 KB
GraphL.java	28/8/2025 14:32	Java Source File	1 KB
GraphM.java	28/8/2025 14:32	Java Source File	1 KB
Main.java	28/8/2025 14:32	Java Source File	1 KB
MyAlgorithm.java	28/8/2025 14:32	Java Source File	1 KB

```
javac dev/main.java
```

```
java dev.Main
```

# Package Naming Convention

- Java package naming convention are as follows:
  - Package name are all written in **lower case**.
  - Companies uses Reversed Internet Domain name to begin their package name.
- You are the student (developer) at CPE, KMUTT. So you are like a programmer in algorithm.cpe.kmutt.ac.th
- Thus, the package (reverse domain name) is as follow:

`th.ac.kmutt.cpe.algorithm`

# Package Naming Convention

- So, in this semester, you are going to name your package as follow:

`th.ac.kmutt.cpe.algorithm.[yourName]`

- Such as,

`th.ac.kmutt.cpe.algorithm.kamonnat`

**Your first name in all  
lower letter**

# Package Structure

Project/Repository directory

Package Directory

cpe231-algo-2025

src

th > ac > kmutt > cpe > algorithm > wongsatorn

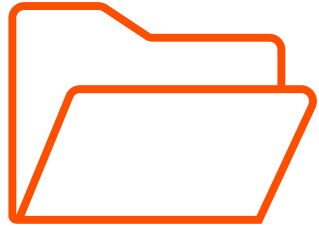
Sort

View

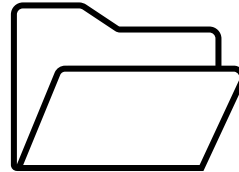
...

Name	Date modified	Type	Size
searching	28/8/2025 15:47	File folder	
sorting	28/8/2025 16:45	File folder	
Beads.java	28/8/2025 17:58	Java Source File	1 KB
Main.java	28/8/2025 17:56	Java Source File	1 KB

# Package Structure



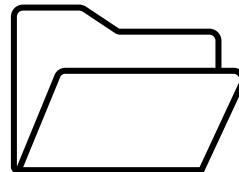
**/cpe231-algo-2025**



**/src**

Containing all source file (.java)

Both folders will have the same  
inner folder structures



**/bin**

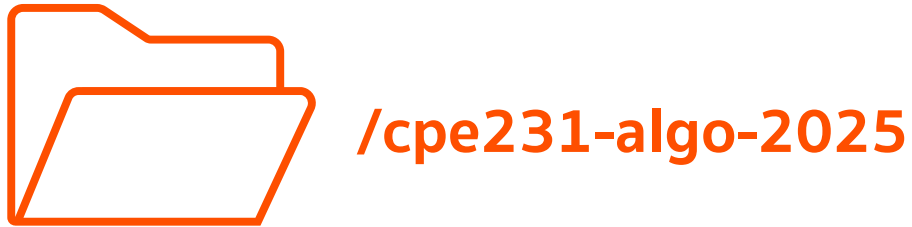
Containing all binary file (.class)



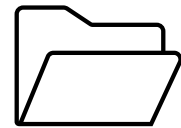
# Create your structure

- First, create the directory structure as mentioned slide before (ONLY the src will be created, as we compile the Java source code and bin will be created automatically)
- Then open your preferred IDE (VSC, IntelliJ, Eclipse, Notepad, Vim, MS Word)

# Inside the package



• • • /th/ac/kmutt/cpe/algorithm/wongsatorn



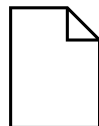
/searching

**th.ac.kmutt.cpe.algorithm.wongsatorn.searching**



/sorting

**th.ac.kmutt.cpe.algorithm.wongsatorn.sorting**



**Main.java**

# How to Compile & Run this Madness!?



## Compile

```
C:\Folders\cpe231-algo-2025>
javac -d bin -sourcepath src .\src\th\ac\kmutt\cpe\algorithm\wongsatorn\sorting\*.java
```

## Run

```
C:\Folders\cpe231-algo-2025>
java -cp bin th.ac.kmutt.cpe.algorithm.wongsatorn.Main
```