

UNIT I

Generic Methods

About Data

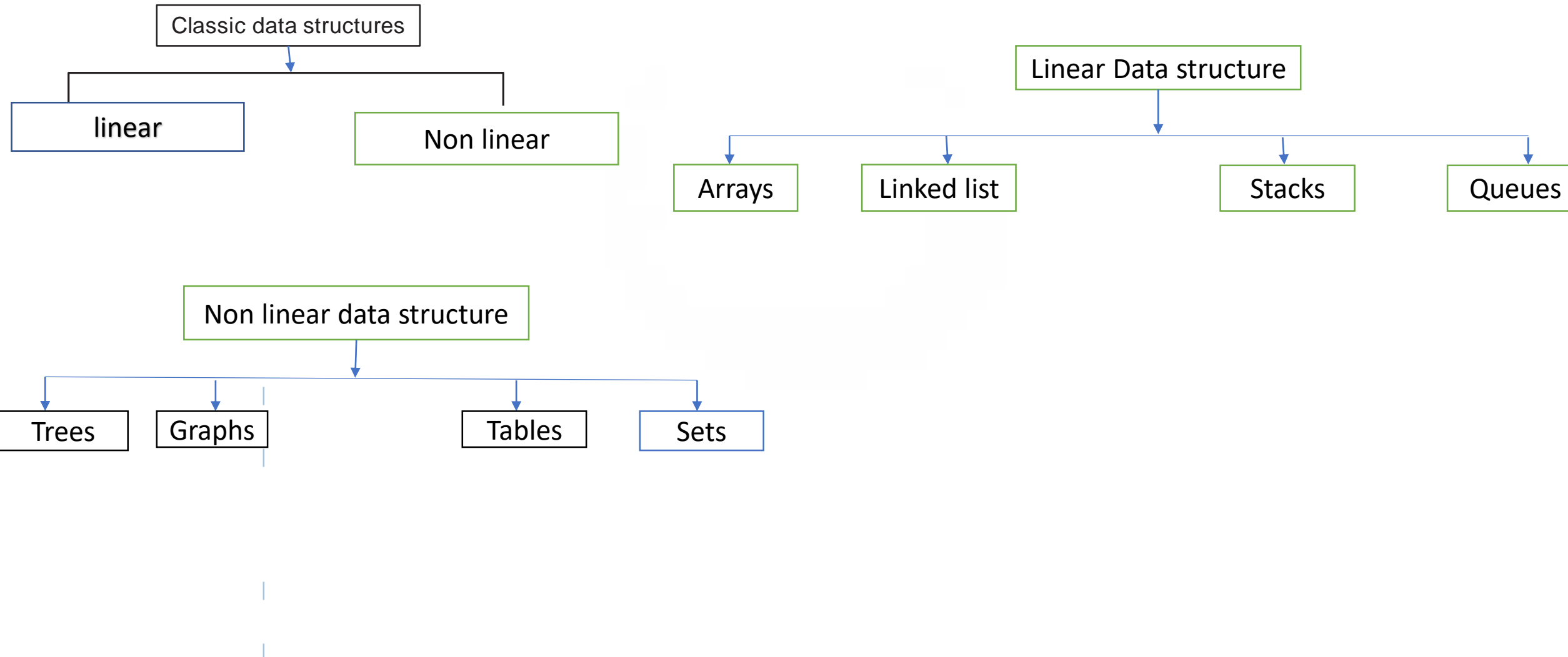
- About data Example: 10, 25, ..., Galgotias, 10CS3002, namo@gov.in Anything else?
- Data vs. Information 100.0, 0.0, 250.0, 150.0, 220.0, 300.0, 110.0
Is there any information? NPT.

Importance of data structures

- Primitive data
- Abstract data
 - Storing data
 - Retrieving data

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Different Data Structures



supports for programming

Java supports for programming

- Encapsulation
- Inheritance
- Package and interface
- Exception handling
- Multithreading
- AWT, Swing, JavaFX
- Networking
- JDBC

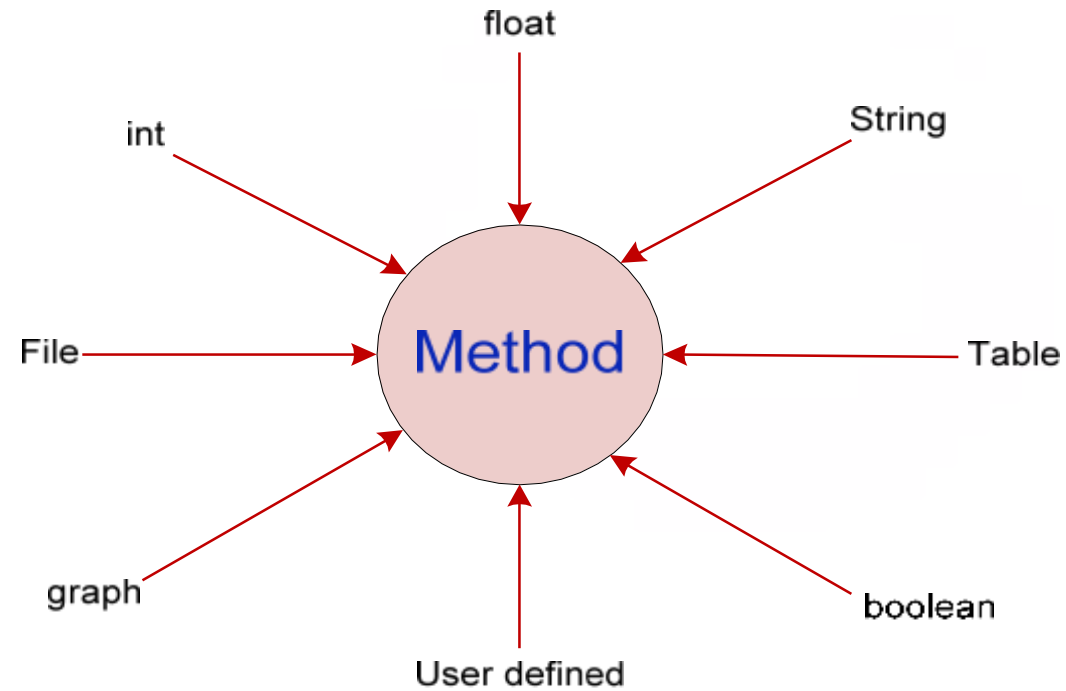
Java supports for data structures

- java.util
- class String
- java.i

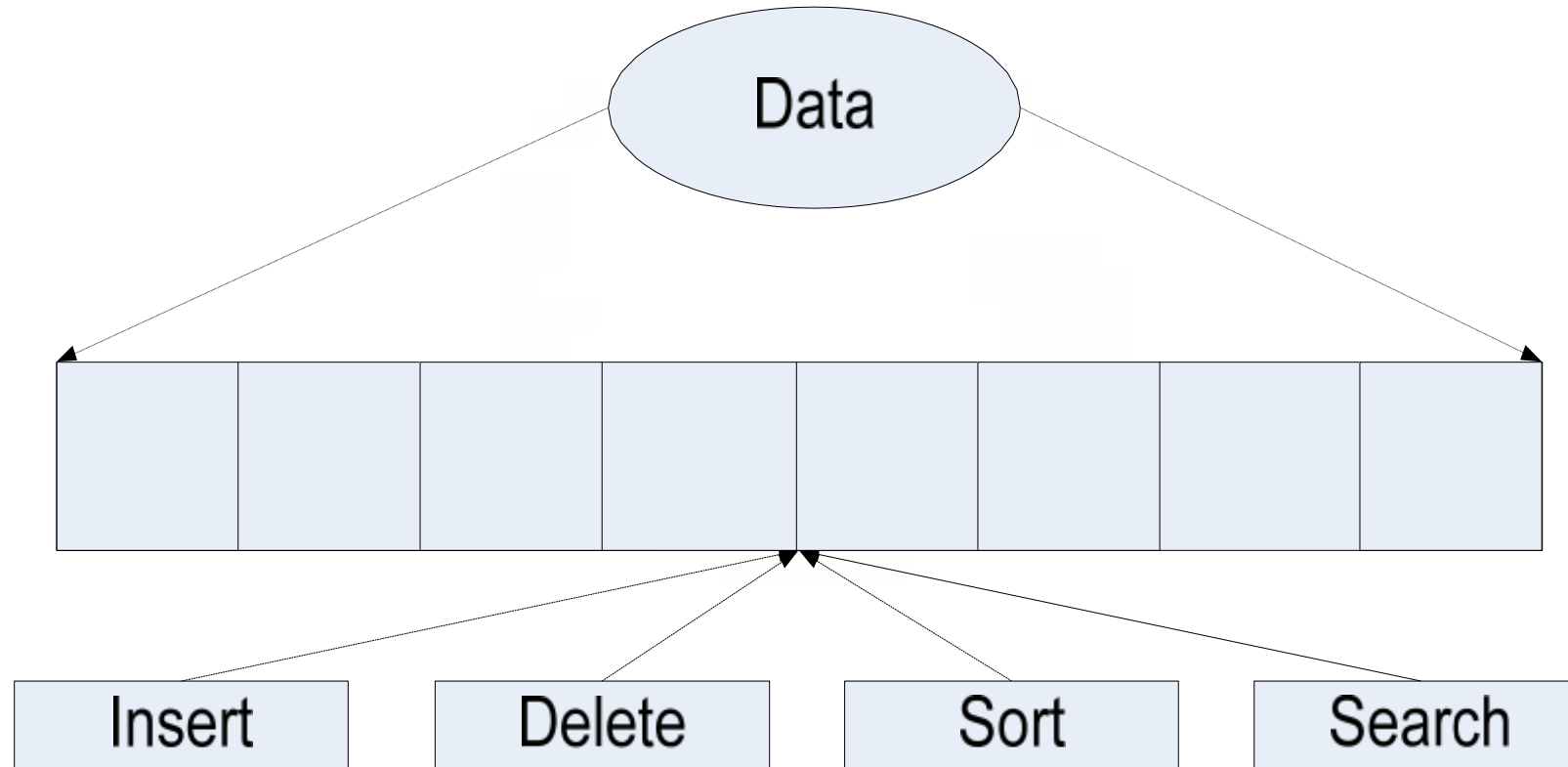
Concepts Covered

- Concept of Generic Definition
- Parameters Passing
- Generic Methods with Variable List of Arguments
 - Using an Array
 - Using an Object
 - Using Ellipsis

Methods to take any type of data

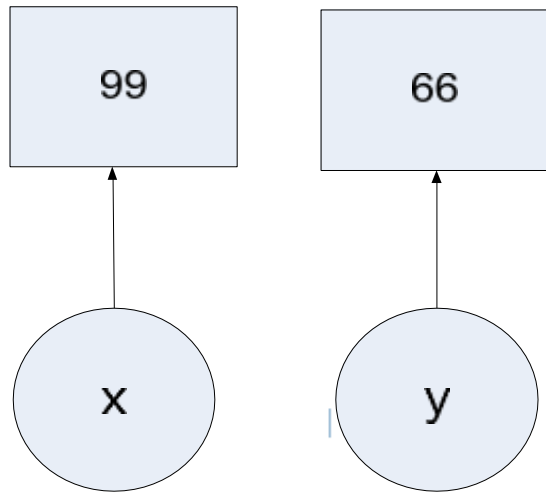


Example of generic methods

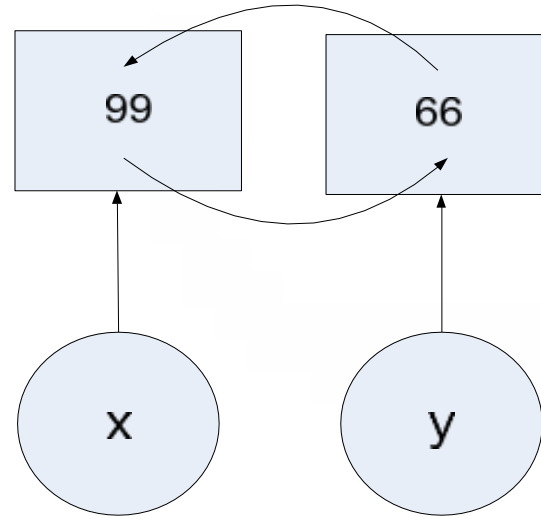


Example of 'swap' program

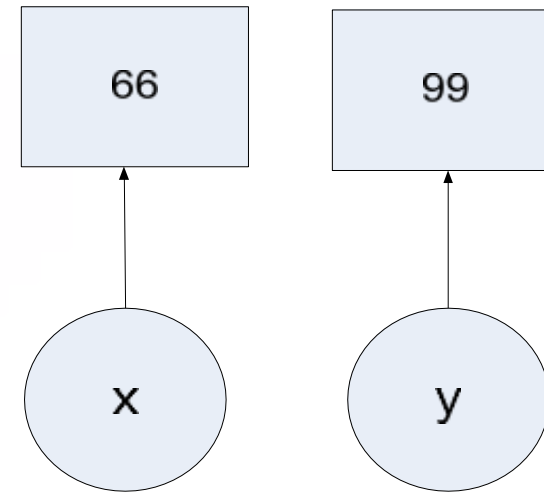
Before Swap



During Swap



After Swap



Writing a 'swap' method

```
void swap(int x, int y)
{
int temp;
temp = x;  x = y;
y = temp;
}
```

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Thank You