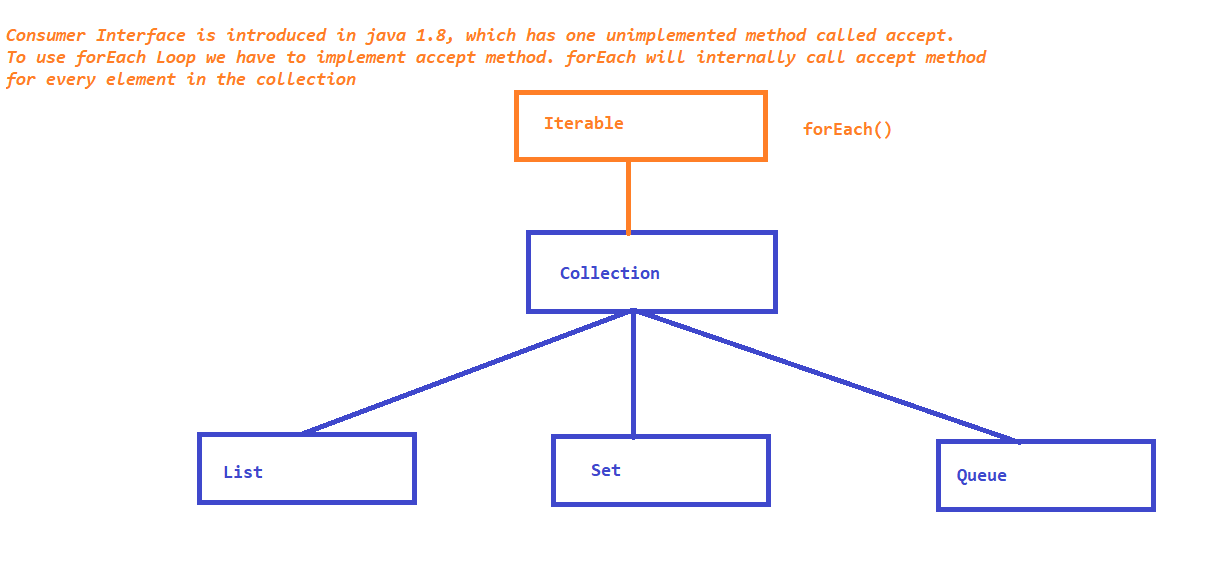
Java – 1.8 Features

* **Interfaces with advanced features**
* **forEach**
* **Lambda Expressions**
* **:: Operator**
* **Stream APIs**
* **Improvements to Collection API**
* **Improvements to IO**
* **Date / Time API**

**ForEach**



Inner classes in java

Inner class / Nested class is a class within a class. which are mainly introduced to achieve ,

1. Better encapsulation

2. To group the logically similar classes

3. for better readable and maintainable code

Types:

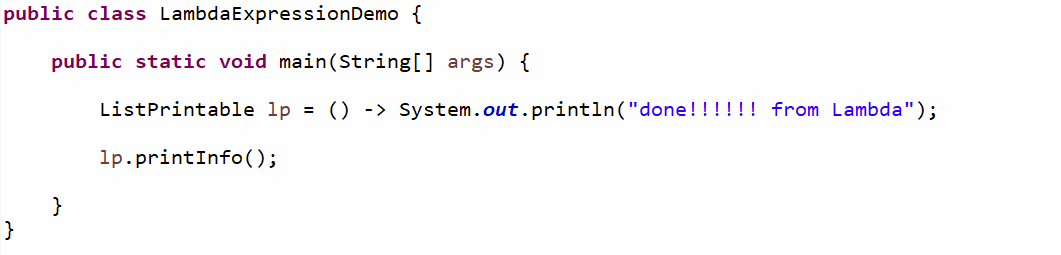
* static inner class :
  + inner class is a member of a parent class
  + inner class is accessible by all the static members of the parent class
* local inner class / instance inner class
  + inner class is a member of a method
  + inner class is accessible only inside the method, and not accessible by any other members of the class
* anonymous inner class

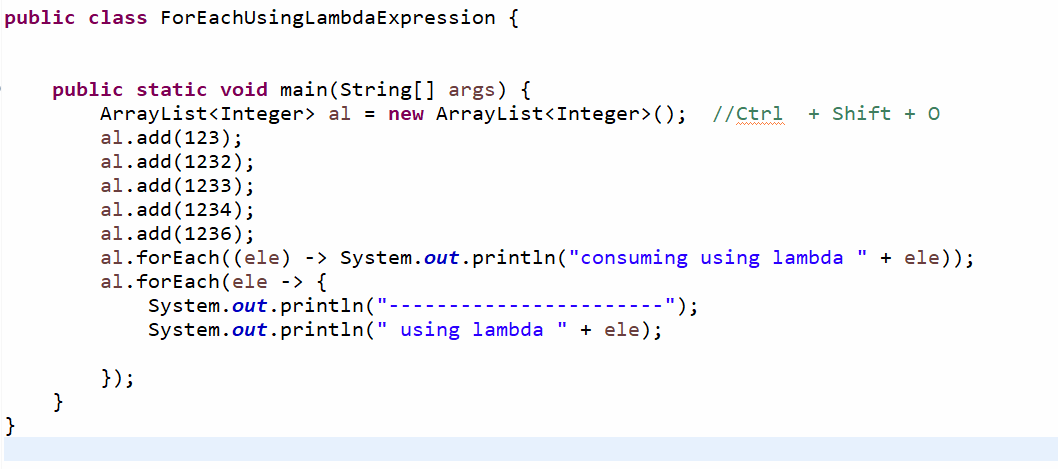
Lambda Expressions

- These are the block of code, which can be executed without object created

- Lambda expressions take no arguments or with arguments and it is capable of returning a value. Lambda expressions are similar to methods.

* Lambda Expressions with no args
* Lambda Expressions with arguments
* Lambda Expressions without return type
* Lambda Expressions with return type
* Lambda Expressions for forEachLoop (consumer accept method)

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Inner classes OR nested classes

* static inner class
* local inner class
* anonymous inner class

:: Operator

* :: operator is used to assign the existing implementation to the unimplemented method
  + static method assignment
  + non-static method assignment
  + method with args
  + Narrowing
  + Widening

Stream

Stream is mainly used to process the group of elements that are in collection or array.

Processing elements means, mapping or filtering

Mapping: every element is replaced with other element

Filtering: finding max, min, count, avg etc

1. Get the stream object

* From List
* From Set
* From Map
* From Array
* From Group of Elements
* From Derived Data type

2. Process the stream object

* Applying our own filter
* Sorting
* Descending sort
* compareTo from Comparator
* Parallel Streams

IO Improvements

* list : list all the members of the current dir / specified directory
* walk: walk will print all the files which are present even in subdirectory
* lines: For lines function we need to pass file. lines function will print each and every line in a file

Collection API Improvements

sdf

Date And Time Improvements