

## Contents

<b>1 CE103 Algorithms and Programming I</b>	<b>1</b>
<b>2 Week-10</b>	<b>1</b>
<b>3 Java Functional Console Programming-II</b>	<b>1</b>
3.1 Out of Scope . . . . .	3

## 1 CE103 Algorithms and Programming I

## 2 Week-10

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## 3 Java Functional Console Programming-II

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- a. Java Exception Handling
- b. Java Exceptions
  - ii. Java Exception Handling
  - iii. Java try..catch
  - iv. Java throw and throws
  - v. Java catch Multiple Exceptions
  - vi. Java try-with-resources
- vii. Java Annotations
- viii. Java Annotation Types
- ix. Java Logging
- x. Java Assertions
- b. Java List
  - c. Java Collection Framework
  - ii. Java Collection Interface
  - iii. Java List Interface
  - iv. Java ArrayList
  - v. Java Vector
  - vi. Java Stack

- vii. Java Queue
- viii. Java Queue Interface
  - ix. Java PriorityQueue Interface
  - x. Java Deque Interface
  - xi. Java LinkedList
  - xii. Java ArrayDeque
  - xiii. Java BlockingQueue Interface
  - xiv. Java ArrayBlockingQueue
  - xv. Java LinkedBlocking Queue
  - xvi. Java Map
  - xvii. Java Map Interface
  - xviii. Java HashMap
    - xix. Java LinkedHashMap
    - xx. Java WeakHashMap
    - xxi. Java EnumMap
    - xxii. Java SortedMap Interface
    - xxiii. Java NavigableMap Interface
    - xxiv. Java TreeMap
    - xxv. Java ConcurrentMap Interface
    - xxvi. Java ConcurrentHashMap
      - e. Java Set
      - f. Java Set Interface
      - ii. Java HashSet
      - iii. Java EnumSet
      - iv. Java LinkedHashSet
      - v. Java SortedSet Interface
      - vi. Java NavigableSet Interface
      - vii. Java TreeSet
      - viii. Java Algorithms
      - ix. Java Iterator
- Java ListIterator

### 3.1 Out of Scope

- a. Java OOP-I
  - b. Java Class and Objects
  - ii. Java Methods
  - iii. Java Constructor
  - iv. Java Strings
  - v. Java Access Modifiers
  - vi. Java this keyword
  - vii. Java final keyword
  - viii. Java recursion
  - ix. Java instanceof operator
  - b. Java OOP-II
  - c. Java Inheritance
  - ii. Java Method Overriding
  - iii. Java super keyword
  - iv. Abstract Class & Method
  - v. Java Interfaces
  - vi. Java Polymorphism
  - vii. Java Encapsulation
  - viii. Java OOP-III
  - ix. Nested & Inner Class
  - x. Java Static Class
  - xi. Java Anonymous Class
  - xii. Java Singleton
  - xiii. Java enum class
  - xiv. Java enum constructor
  - xv. Java enum string
- Java reflection