UML Diagram

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RailroadModel

- Railway: LinkedList<LineSegment>

+ RailwayModel()
+ addSegment(LineSegment)
+ getList(): LinkedList<LineSegment>

Train

- speed: int
- id: String
- slowSpeed: int
- fastSpeed: int
- segment: LinkedList<LineSegment>

+ Train(String, int, LinkedList<LineSegment>)
+ getTrainID(): String
+ run()

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LineSegment

- name: String
- length: int
- capacity: int
- trainQueue:
ArrayBlockingQueue <String>
- nextSeg: ReentrantLock
- enoughRoom: Condition

+ LineSegment(String, int, int)
+ addTrain(String)
+ getTravelTime(int): int
+ stringSegment():String
+ removeTrain(String)

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TrainCreator

- segment: LinkedList<LineSegment>

+ TrainCreator(LinkedList<LineSegment>)
+ run()

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RailwayReporter

- segment: LinkedList<LineSegment>

+ RailwayReporter(LinkedList<LineSegment>)
+ run()

**<<interface>>
Runnable**

Station

- length: int

+ Station(String, int, int, int)
+ getTravelTime(int): int

Track

- name: String
- capacity: int

+ Track(int)