

Constructing Railway Timetables in Practice (an introduction)

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February 2019

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1

A few words about me....



- I graduated as a Civil Engineer (MSc.) from the University of Hannover in Germany and in 2007 a got a Master Executive MBA degree from the Athens University of Economics & Business.
- I have been working for 30 years at the Greek Railways Organization, having in last 8 years Director position. From 2006-2013 I was the Head of the Railway Systems Directorate.
- Currently I am working as Senior Railway Expert at the Ministry of Transport and Communications in Oman.

2

Introduction

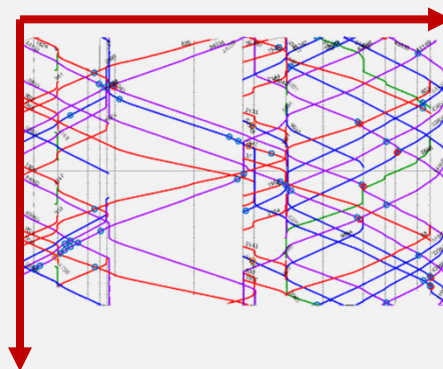
- What is a timetable?
- How is the circulation of trains planned and graphically presented?
- This presentation is for beginners to understand the principles of planning train movements.



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3

- The timetable is a graph, providing a visual representation of the planned movement of trains on certain railway routes.
- Traditionally, planners use for constructing the timetables, the so-called **time-space diagram** that graphically represents the train movements.
- One axis displays time, and the other axis depicts space.
- Each line in the time-space diagram depicts a train, which is indicated by the number next to the line.



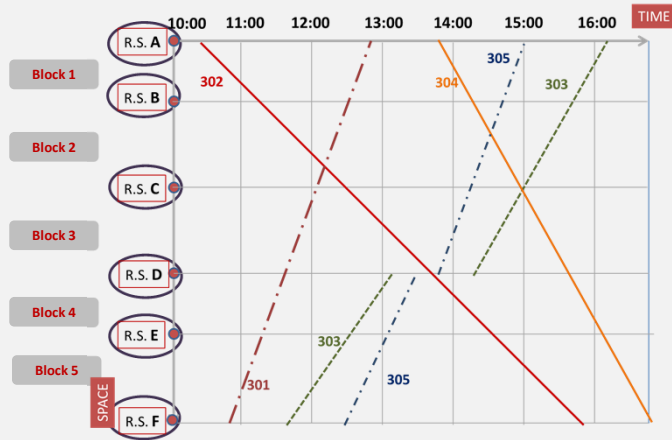
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4

Example

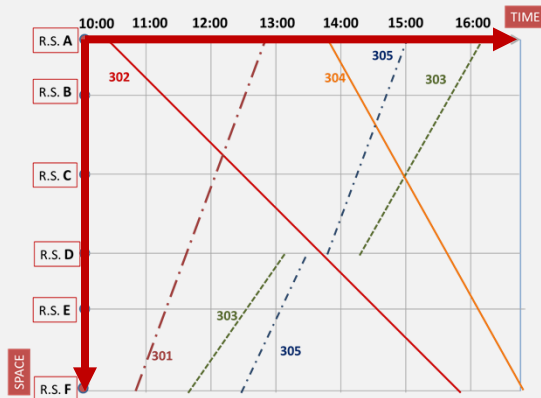
The time-space diagram is explained in the following example:

- The graph is presenting a line section with
 - 6 Railway Stations (R.S.)
 - and
 - 5 blocks (in this example sections between the stations).

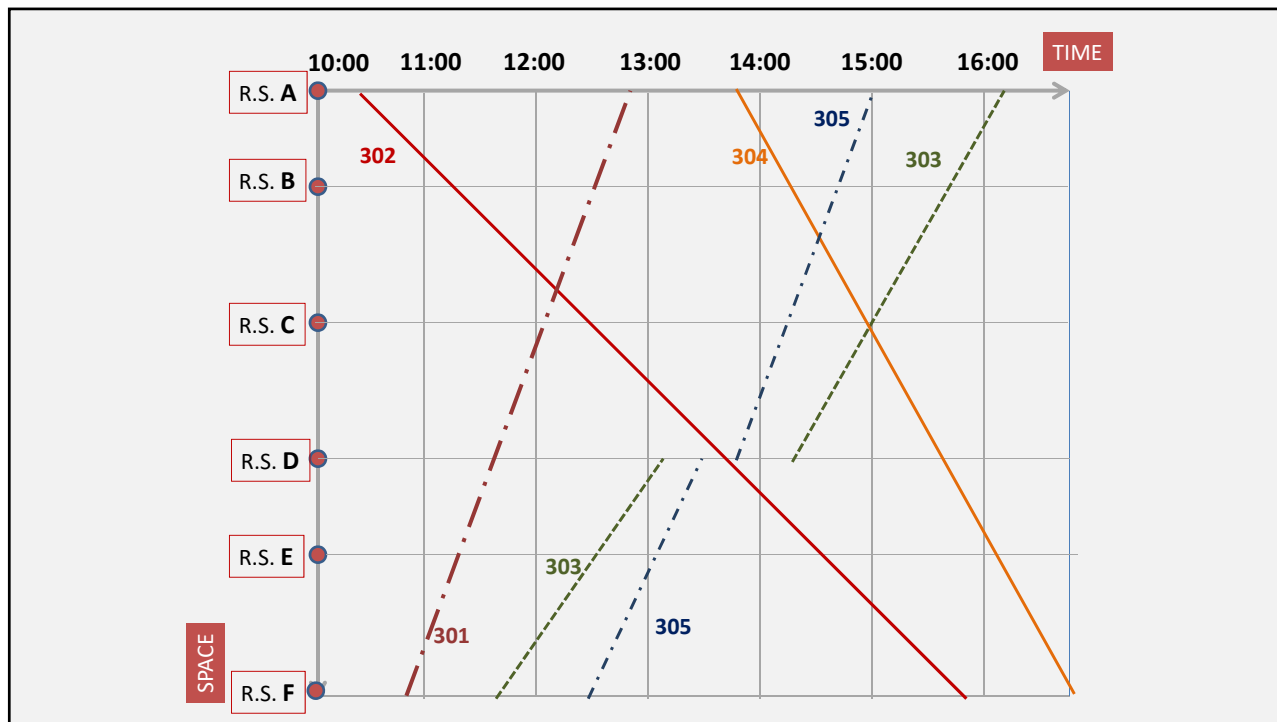


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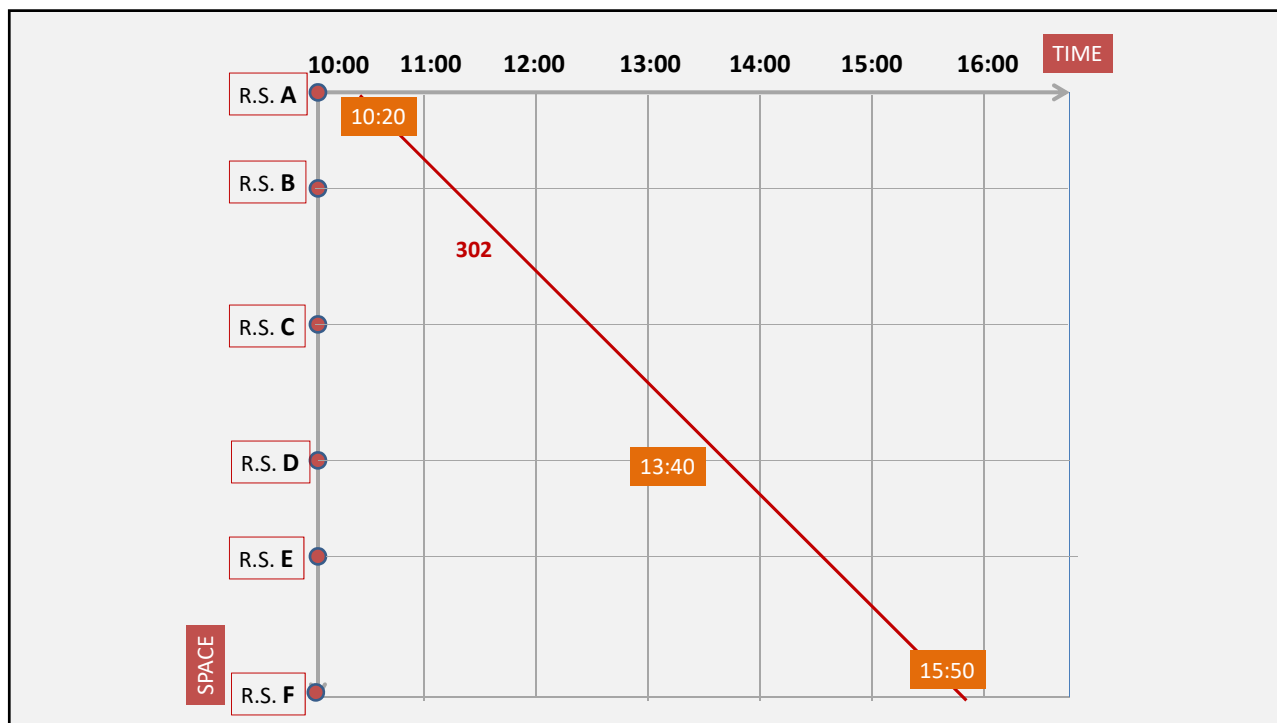
- The railway stations are presented in the vertical axes (the distance between them corresponds to their real kilometre distance).
- The horizontal axis gives the time period (here from 10:00 to 16:00).
- Sections A-B, B-C, C-D, D-E, E-F and F-G



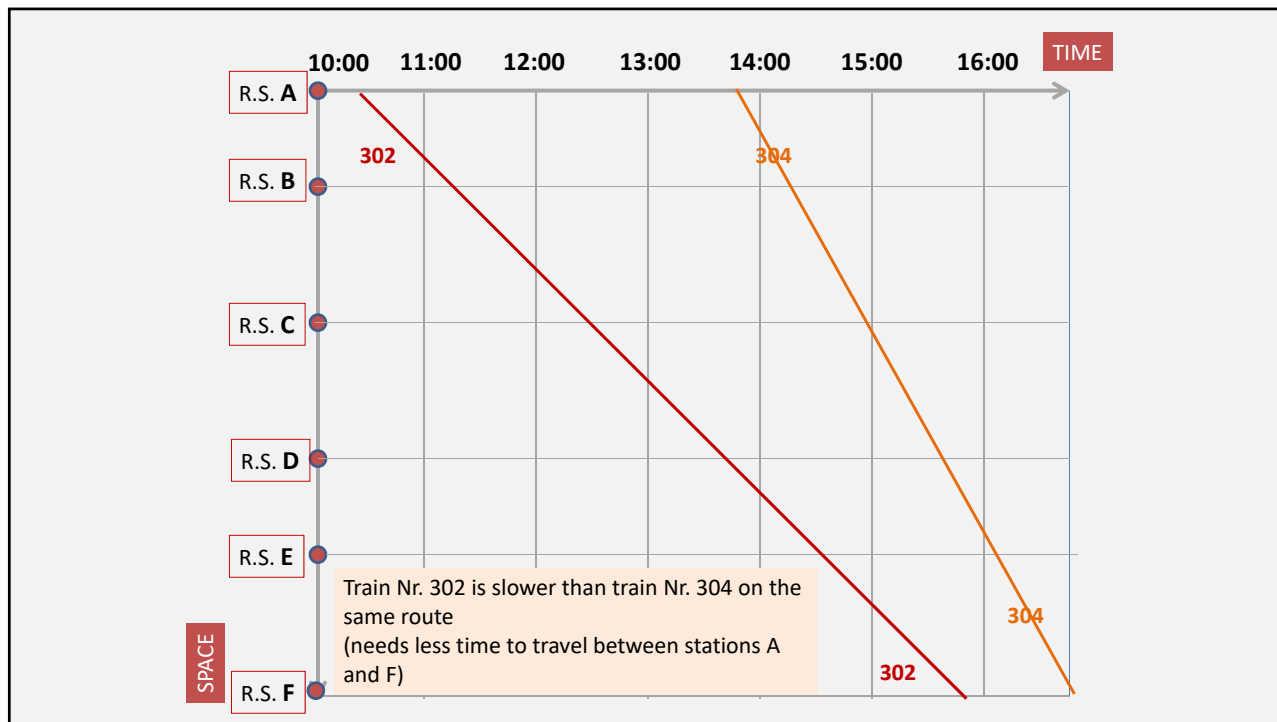
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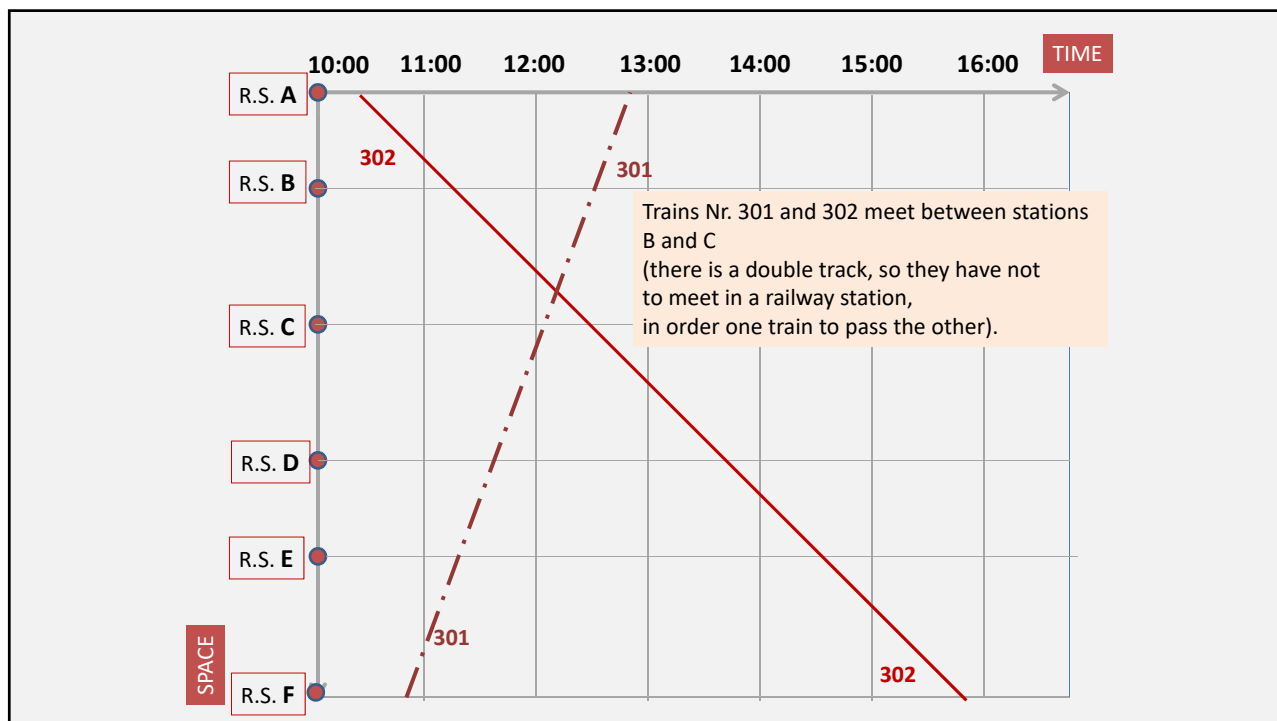
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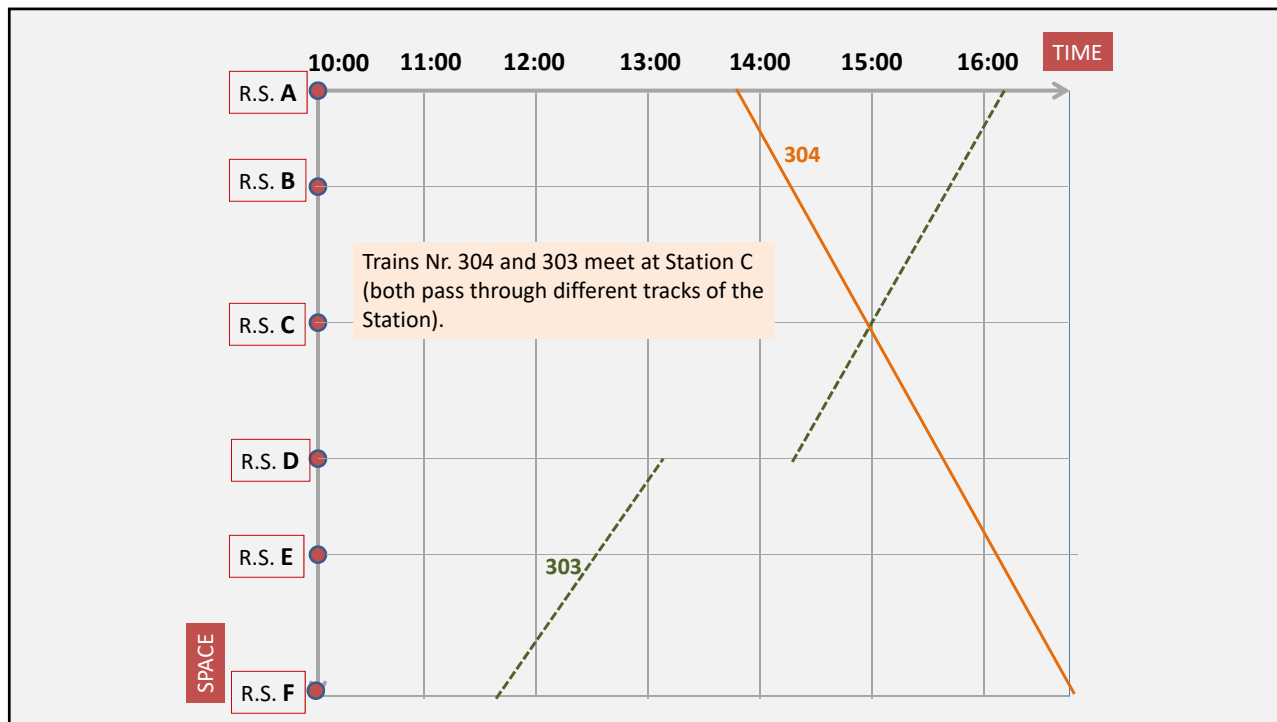
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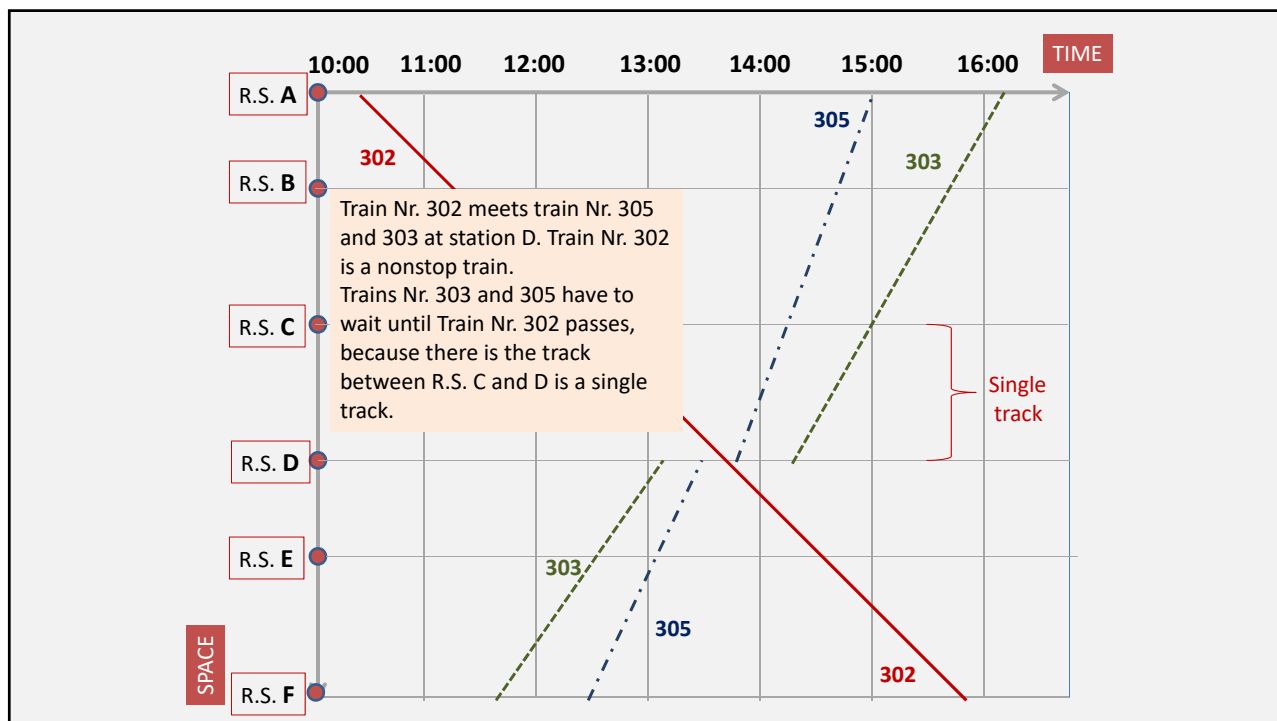
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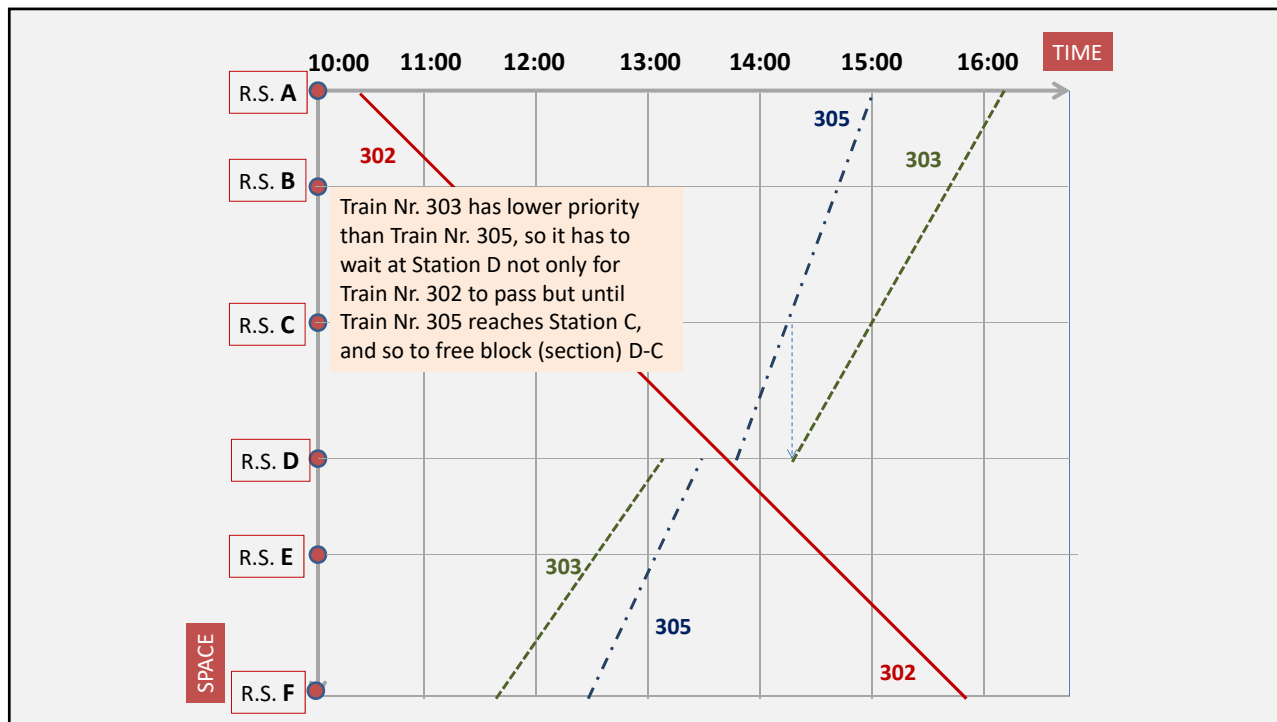
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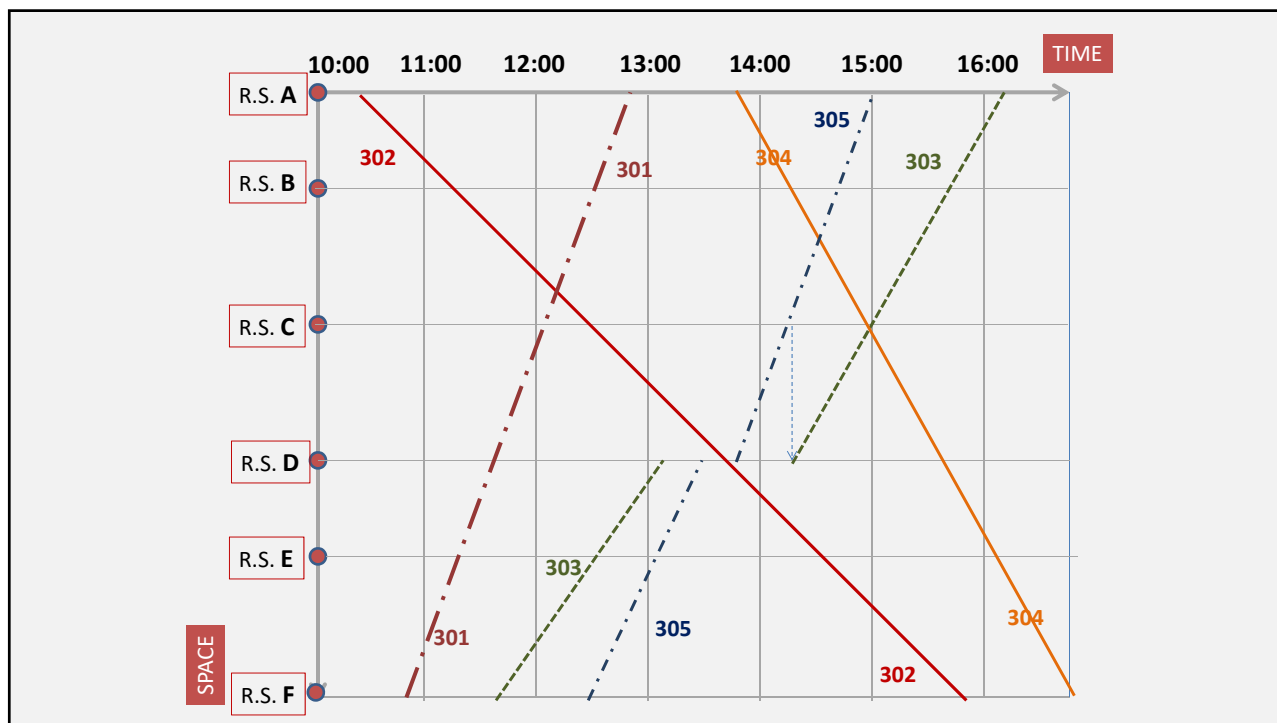
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12



13



14



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related to the railways,
as also other topics related to management and leadership!

