

## Lab 5 (November 7, 2016)

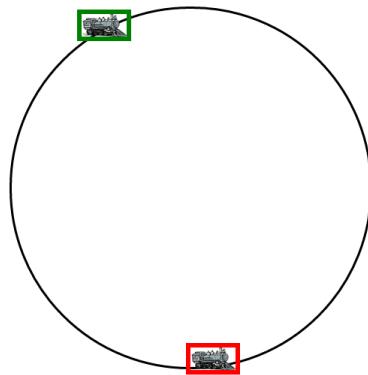
Fedorov Danil, AS-36

25 rules:

IF speed is	AND distance is	THEN brake is
verySlow	veryShort	Weak
verySlow	Short	Weak
verySlow	Medium	Weak
verySlow	Long	Weak
verySlow	veryLong	veryWeak
Slow	veryShort	Medium
Slow	Short	Medium
Slow	Medium	Weak
Slow	Long	Weak
Slow	veryLong	veryWeak
Medium	veryShort	Strong
Medium	Short	Medium
Medium	Medium	Medium
Medium	Long	Weak
Medium	veryLong	Weak
Fast	veryShort	veryStrong
Fast	Short	Strong
Fast	Medium	Medium
Fast	Long	Medium
Fast	veryLong	Weak
veryFast	veryShort	veryStrong
veryFast	Short	Strong
veryFast	Medium	Strong
veryFast	Long	Medium
veryFast	veryLong	Medium

The all break values for speed = {0,1,2,3,...,20} and distance = {0,50,100,150, ..., 1000} :

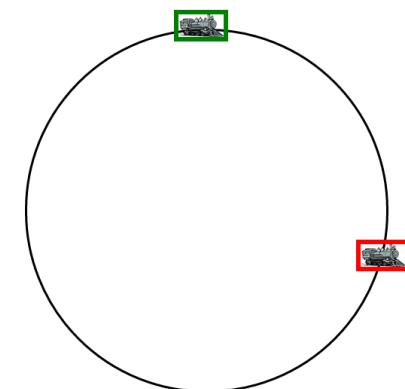
Speed is Starting with value=10 and changes every step by adding -9, 0 or +9 at random because we have brake = 8.636 in rules. At each step adds a random value and subtract brake value, then the speed value is rounded.



green speed: 8  
red speed: 0

green to red distance: 456  
red to green distance: 544

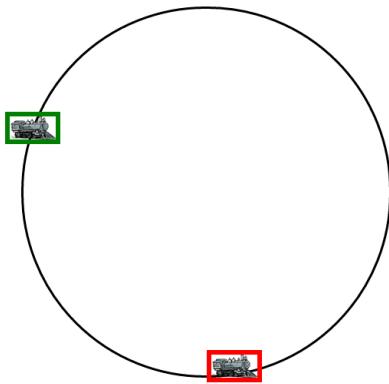
green train brake: 3.235  
red train brake: 3



green speed: 5  
red speed: 19

green to red distance: 268  
red to green distance: 732

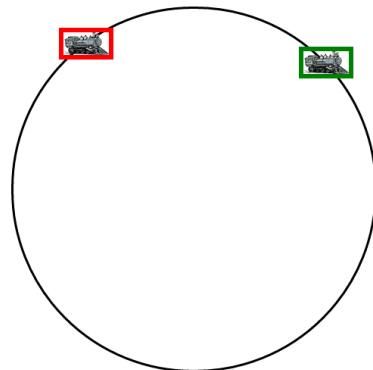
green train brake: 4.063  
red train brake: 4.5



green speed: 10  
red speed: 8

green to red distance: 337  
red to green distance: 663

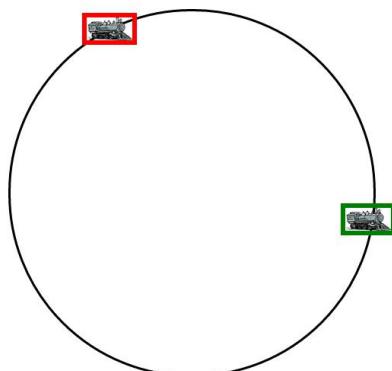
green train brake: 4.063  
red train brake: 2.286



green speed: 20  
red speed: 15

green to red distance: 254  
red to green distance: 747

green train brake: 6  
red train brake: 3.235



green speed: 19  
red speed: 19

green to red distance: 378  
red to green distance: 622

green train brake: 6  
red train brake: 5