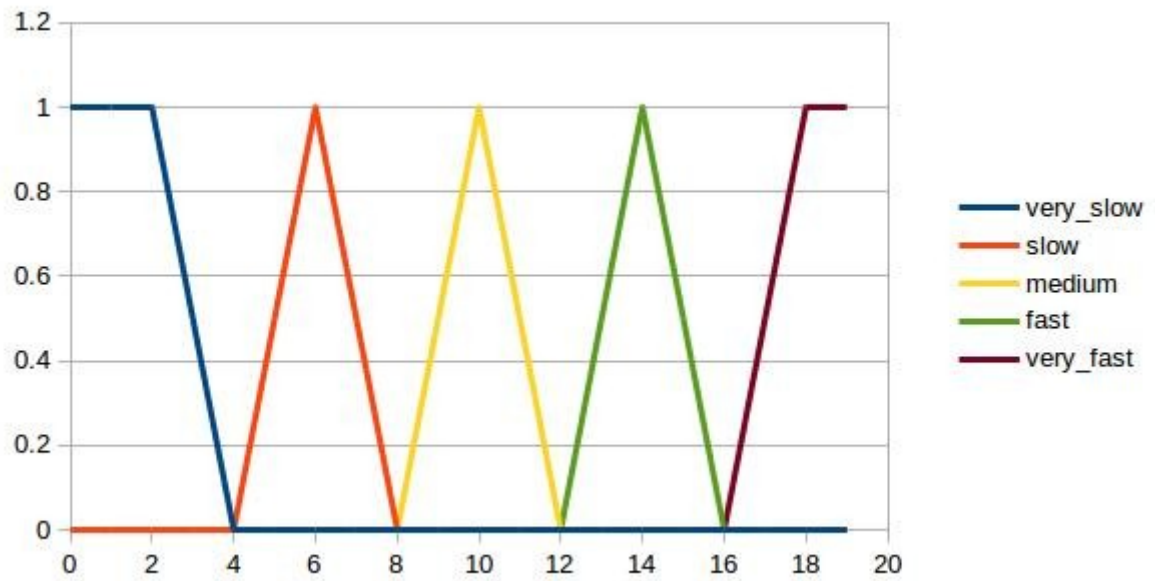
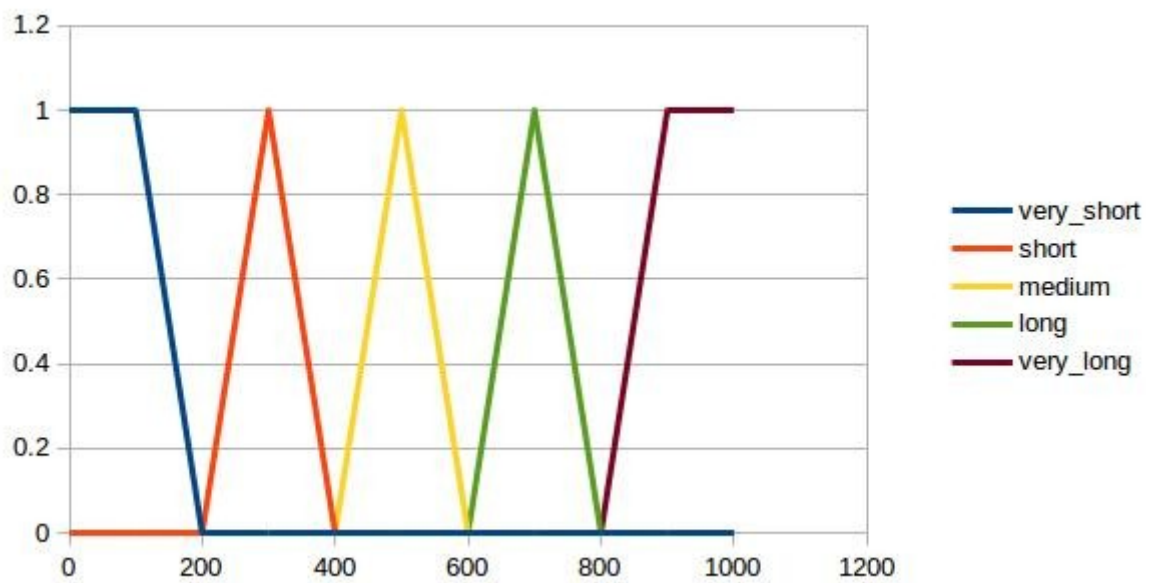


Task 1

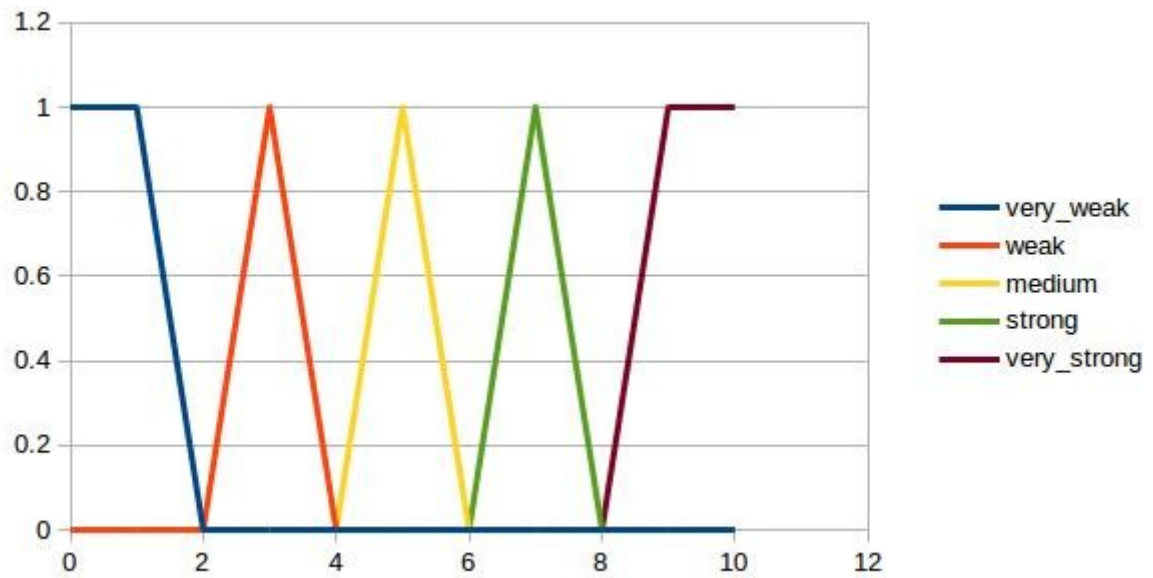
Membership function for speed:



Membership function for distance:



Membership function for brake:



Task 2

Rule1: if speed is slow and distance is long then break is weak (beginning, middle and end of big table)

speed	distance	break	mu
0	0	0	0
0	0	0.5	0
0	0	1	0
0	0	1.5	0
0	0	2	0
0	0	2.5	0
0	0	3	0
0	0	3.5	0
0	0	4	0
0	0	4.5	0
0	0	5	0
0	0	5.5	0
0	0	6	0
0	0	6.5	0
0	0	7	0
0	0	7.5	0
0	0	8	0
0	0	8.5	0
0	0	9	0
0	0	9.5	0
5	600	3.5	0
5	600	4	0
5	600	4.5	0
5	600	5	0
5	600	5.5	0

5	600	6	0
5	600	6.5	0
5	600	7	0
5	650	2	0
5	650	2.5	0.25
5	650	3	0.5
5	650	3.5	0.25
5	650	4	0
5	650	4.5	0
5	650	5	0
5	650	5.5	0
5	650	6	0
5	650	6.5	0
5	650	7	0
5	700	2	0
5	700	2.5	0.25
5	700	3	0.5
5	700	3.5	0.25
5	700	4	0
5	700	4.5	0
5	700	5	0
5	700	5.5	0
5	700	6	0
5	700	6.5	0
5	700	7	0
6	650	2	0
6	650	2.5	0.25
6	650	3	0.5
6	650	3.5	0.25
6	650	4	0
6	650	4.5	0
6	650	5	0
6	650	5.5	0
6	650	6	0
6	650	6.5	0
6	650	7	0
6	700	2	0
6	700	2.5	0.5
6	700	3	1
6	700	3.5	0.5
6	700	4	0
6	700	4.5	0
6	700	5	0

6	700	5.5	0
6	700	6	0
6	700	6.5	0
6	700	7	0
17	850	8.5	0
17	850	9	0
17	900	7.5	0
17	900	8	0
17	900	8.5	0
17	900	9	0
18	750	7.5	0
18	750	8	0
18	750	8.5	0
18	750	9	0
18	800	7.5	0
18	800	8	0
18	800	8.5	0
18	800	9	0
18	850	7.5	0
18	850	8	0
18	850	8.5	0
18	850	9	0
18	900	7.5	0
18	900	8	0
18	900	8.5	0
18	900	9	0

Rule2: if speed is medium and distance is medium then break is medium (beginning, middle and end of big table)

speed	distance	break	mu
0	0	0	0
0	0	0.5	0
0	0	1	0
0	0	1.5	0
0	0	2	0
0	0	2.5	0
0	0	3	0
0	0	3.5	0
0	0	4	0
0	0	4.5	0
0	0	5	0

0	0	5.5	0
0	0	6	0
0	0	6.5	0
0	0	7	0
0	0	7.5	0
0	0	8	0
0	0	8.5	0
0	0	9	0
0	0	9.5	0
9	500	2	0
9	500	2.5	0
9	500	3	0
9	500	3.5	0
9	500	4	0
9	500	4.5	0.25
9	500	5	0.5
9	500	5.5	0.25
9	500	6	0
9	500	6.5	0
9	500	7	0
9	550	2	0
9	550	2.5	0
9	550	3	0
9	550	3.5	0
9	550	4	0
9	550	4.5	0.25
9	550	5	0.5
9	550	5.5	0.25
9	550	6	0
9	550	6.5	0
9	550	7	0
9	600	2	0
9	600	2.5	0
9	600	3	0
9	600	3.5	0
9	600	4	0
9	600	4.5	0
9	600	5	0
9	600	5.5	0
9	600	6	0
9	600	6.5	0
9	600	7	0
9	650	2	0

9	650	2.5	0
9	650	3	0
9	650	3.5	0
9	650	4	0
9	650	4.5	0
9	650	5	0
9	650	5.5	0
9	650	6	0
9	650	6.5	0
11	350	5	0
11	350	5.5	0
11	350	6	0
11	350	6.5	0
11	350	7	0
11	400	2	0
11	400	2.5	0
11	400	3	0
11	400	3.5	0
11	400	4	0
11	400	4.5	0
11	400	5	0
11	400	5.5	0
11	400	6	0
11	400	6.5	0
11	400	7	0
11	450	2	0
11	450	2.5	0
11	450	3	0
11	450	3.5	0
11	450	4	0
11	450	4.5	0.25
11	450	5	0.5
11	450	5.5	0.25
11	450	6	0
11	450	6.5	0
11	450	7	0
11	500	2	0
11	500	2.5	0
11	500	3	0
11	500	3.5	0
11	500	4	0
11	500	4.5	0.25
11	500	5	0.5

11	500	5.5	0.25
11	500	6	0
11	500	6.5	0
11	500	7	0
11	550	2	0
11	550	2.5	0
11	550	3	0
11	550	3.5	0
11	550	4	0
11	550	4.5	0.25
11	550	5	0.5
11	550	5.5	0.25
11	550	6	0
11	550	6.5	0
11	550	7	0
16	900	7.5	0
16	900	8	0
16	900	8.5	0
16	900	9	0
17	750	7.5	0
17	750	8	0
17	750	8.5	0
17	750	9	0
17	800	7.5	0
17	800	8	0
17	800	8.5	0
17	800	9	0
17	850	7.5	0
17	850	8	0
17	850	8.5	0
17	850	9	0
17	900	7.5	0
17	900	8	0
17	900	8.5	0
17	900	9	0
18	750	7.5	0
18	750	8	0
18	750	8.5	0
18	750	9	0
18	800	7.5	0
18	800	8	0
18	800	8.5	0
18	800	9	0

18	850	7.5	0
18	850	8	0
18	850	8.5	0
18	850	9	0
18	900	7.5	0
18	900	8	0
18	900	8.5	0
18	900	9	0

Rule3: if speed is fast and distance is short then break is strong (beginning, middle and end of big table)

speed	distance	break	mu
0	0	0	0
0	0	0.5	0
0	0	1	0
0	0	1.5	0
0	0	2	0
0	0	2.5	0
0	0	3	0
0	0	3.5	0
0	0	4	0
0	0	4.5	0
0	0	5	0
0	0	5.5	0
0	0	6	0
0	0	6.5	0
0	0	7	0
0	0	7.5	0
0	0	8	0
0	0	8.5	0
0	0	9	0
0	0	9.5	0
13	200	2	0
13	200	2.5	0
13	200	3	0
13	200	3.5	0
13	200	4	0
13	200	4.5	0
13	200	5	0
13	200	5.5	0
13	200	6	0
13	200	6.5	0

13	200	7	0
13	250	2	0
13	250	2.5	0
13	250	3	0
13	250	3.5	0
13	250	4	0
13	250	4.5	0
13	250	5	0
13	250	5.5	0
13	250	6	0
13	250	6.5	0.25
13	250	7	0.5
13	300	2	0
13	300	2.5	0
13	300	3	0
13	300	3.5	0
13	300	4	0
13	300	4.5	0
13	300	5	0
13	300	5.5	0
13	300	6	0
13	300	6.5	0.25
13	300	7	0.5
13	350	2	0
13	350	2.5	0
13	350	3	0
13	350	3.5	0
13	350	4	0
13	350	4.5	0
13	350	5	0
13	350	5.5	0
13	350	6	0
13	350	6.5	0.25
13	350	7	0.5
13	400	2	0
13	400	2.5	0
13	400	3	0
13	400	3.5	0
13	400	4	0
13	400	4.5	0
13	400	5	0
13	400	5.5	0
13	400	6	0

16	850	8.5	0
16	850	9	0
16	900	7.5	0
16	900	8	0
16	900	8.5	0
16	900	9	0
17	750	7.5	0
17	750	8	0
17	750	8.5	0
17	750	9	0
17	800	7.5	0
17	800	8	0
17	800	8.5	0
17	800	9	0
17	850	7.5	0
17	850	8	0
17	850	8.5	0
17	850	9	0
17	900	7.5	0
17	900	8	0
17	900	8.5	0
17	900	9	0
18	750	7.5	0
18	750	8	0
18	750	8.5	0
18	750	9	0
18	800	7.5	0
18	800	8	0
18	800	8.5	0
18	800	9	0
18	850	7.5	0
18	850	8	0
18	850	8.5	0
18	850	9	0
18	900	7.5	0
18	900	8	0
18	900	8.5	0
18	900	9	0

Task 3

Common table for all rules

RULE 1				RULE 2				RULE 3				MU
speed	distance	break	mu	speed	distance	break	mu	speed	distance	break	mu	
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0.5	0	0	0	0.5	0	0	0	0.5	0	0
0	0	1	0	0	0	1	0	0	0	1	0	0
0	0	1.5	0	0	0	1.5	0	0	0	1.5	0	0
0	0	2	0	0	0	2	0	0	0	2	0	0
0	0	2.5	0	0	0	2.5	0	0	0	2.5	0	0
0	0	3	0	0	0	3	0	0	0	3	0	0
0	0	3.5	0	0	0	3.5	0	0	0	3.5	0	0
0	0	4	0	0	0	4	0	0	0	4	0	0
0	0	4.5	0	0	0	4.5	0	0	0	4.5	0	0
0	0	5	0	0	0	5	0	0	0	5	0	0
0	0	5.5	0	0	0	5.5	0	0	0	5.5	0	0
0	0	6	0	0	0	6	0	0	0	6	0	0
0	0	6.5	0	0	0	6.5	0	0	0	6.5	0	0
0	0	7	0	0	0	7	0	0	0	7	0	0
0	0	7.5	0	0	0	7.5	0	0	0	7.5	0	0
0	0	8	0	0	0	8	0	0	0	8	0	0
0	0	8.5	0	0	0	8.5	0	0	0	8.5	0	0
0	0	9	0	0	0	9	0	0	0	9	0	0
0	0	9.5	0	0	0	9.5	0	0	0	9.5	0	0
9	200	2	0	9	200	2	0	9	200	2	0	0
9	200	2.5	0	9	200	2.5	0	9	200	2.5	0	0
9	200	3	0	9	200	3	0	9	200	3	0	0
9	200	3.5	0	9	200	3.5	0	9	200	3.5	0	0
9	200	4	0	9	200	4	0	9	200	4	0	0
9	200	4.5	0	9	200	4.5	0	9	200	4.5	0	0
9	200	5	0	9	200	5	0	9	200	5	0	0
9	200	5.5	0	9	200	5.5	0	9	200	5.5	0	0
9	200	6	0	9	200	6	0	9	200	6	0	0
9	200	6.5	0	9	200	6.5	0	9	200	6.5	0	0
9	200	7	0	9	200	7	0	9	200	7	0	0
9	250	2	0	9	250	2	0	9	250	2	0	0
9	250	2.5	0	9	250	2.5	0	9	250	2.5	0	0
9	250	3	0	9	250	3	0	9	250	3	0	0
9	250	3.5	0	9	250	3.5	0	9	250	3.5	0	0
9	250	4	0	9	250	4	0	9	250	4	0	0
9	250	4.5	0	9	250	4.5	0	9	250	4.5	0	0
9	250	5	0	9	250	5	0	9	250	5	0	0

9	250	5.5	0	9	250	5.5	0	9	250	5.5	0	0
9	250	6	0	9	250	6	0	9	250	6	0	0
9	250	6.5	0	9	250	6.5	0	9	250	6.5	0	0
9	250	7	0	9	250	7	0	9	250	7	0	0
9	300	2	0	9	300	2	0	9	300	2	0	0
9	300	2.5	0	9	300	2.5	0	9	300	2.5	0	0
9	300	3	0	9	300	3	0	9	300	3	0	0
9	300	3.5	0	9	300	3.5	0	9	300	3.5	0	0
9	300	4	0	9	300	4	0	9	300	4	0	0
9	300	4.5	0	9	300	4.5	0	9	300	4.5	0	0
9	300	5	0	9	300	5	0	9	300	5	0	0
9	300	5.5	0	9	300	5.5	0	9	300	5.5	0	0
9	300	6	0	9	300	6	0	9	300	6	0	0
9	300	6.5	0	9	300	6.5	0	9	300	6.5	0	0
9	300	7	0	9	300	7	0	9	300	7	0	0
9	350	2	0	9	350	2	0	9	350	2	0	0
9	350	2.5	0	9	350	2.5	0	9	350	2.5	0	0
9	350	3	0	9	350	3	0	9	350	3	0	0
9	350	3.5	0	9	350	3.5	0	9	350	3.5	0	0
9	350	4	0	9	350	4	0	9	350	4	0	0
9	350	4.5	0	9	350	4.5	0	9	350	4.5	0	0
9	350	5	0	9	350	5	0	9	350	5	0	0
9	350	5.5	0	9	350	5.5	0	9	350	5.5	0	0
9	350	6	0	9	350	6	0	9	350	6	0	0
9	350	6.5	0	9	350	6.5	0	9	350	6.5	0	0
9	350	7	0	9	350	7	0	9	350	7	0	0
9	400	2	0	9	400	2	0	9	400	2	0	0
9	400	2.5	0	9	400	2.5	0	9	400	2.5	0	0
9	400	3	0	9	400	3	0	9	400	3	0	0
9	400	3.5	0	9	400	3.5	0	9	400	3.5	0	0
9	400	4	0	9	400	4	0	9	400	4	0	0
9	400	4.5	0	9	400	4.5	0	9	400	4.5	0	0
9	400	5	0	9	400	5	0	9	400	5	0	0
9	400	5.5	0	9	400	5.5	0	9	400	5.5	0	0
9	400	6	0	9	400	6	0	9	400	6	0	0
9	400	6.5	0	9	400	6.5	0	9	400	6.5	0	0
9	400	7	0	9	400	7	0	9	400	7	0	0
9	450	2	0	9	450	2	0	9	450	2	0	0
9	450	2.5	0	9	450	2.5	0	9	450	2.5	0	0
9	450	3	0	9	450	3	0	9	450	3	0	0
9	450	3.5	0	9	450	3.5	0	9	450	3.5	0	0
9	450	4	0	9	450	4	0	9	450	4	0	0
9	450	4.5	0	9	450	4.5	0.25	9	450	4.5	0	0.25

9	450	5	0	9	450	5	0.5	9	450	5	0	0.5
9	450	5.5	0	9	450	5.5	0.25	9	450	5.5	0	0.25
9	450	6	0	9	450	6	0	9	450	6	0	0
9	450	6.5	0	9	450	6.5	0	9	450	6.5	0	0
9	450	7	0	9	450	7	0	9	450	7	0	0
9	500	2	0	9	500	2	0	9	500	2	0	0
9	500	2.5	0	9	500	2.5	0	9	500	2.5	0	0
9	500	3	0	9	500	3	0	9	500	3	0	0
9	500	3.5	0	9	500	3.5	0	9	500	3.5	0	0
9	500	4	0	9	500	4	0	9	500	4	0	0
9	500	4.5	0	9	500	4.5	0.25	9	500	4.5	0	0.25
9	500	5	0	9	500	5	0.5	9	500	5	0	0.5
9	500	5.5	0	9	500	5.5	0.25	9	500	5.5	0	0.25
9	500	6	0	9	500	6	0	9	500	6	0	0
9	500	6.5	0	9	500	6.5	0	9	500	6.5	0	0
9	500	7	0	9	500	7	0	9	500	7	0	0
9	550	2	0	9	550	2	0	9	550	2	0	0
9	550	2.5	0	9	550	2.5	0	9	550	2.5	0	0
9	550	3	0	9	550	3	0	9	550	3	0	0
9	550	3.5	0	9	550	3.5	0	9	550	3.5	0	0
9	550	4	0	9	550	4	0	9	550	4	0	0
9	550	4.5	0	9	550	4.5	0.25	9	550	4.5	0	0.25
9	550	5	0	9	550	5	0.5	9	550	5	0	0.5
9	550	5.5	0	9	550	5.5	0.25	9	550	5.5	0	0.25
9	550	6	0	9	550	6	0	9	550	6	0	0
9	550	6.5	0	9	550	6.5	0	9	550	6.5	0	0
9	550	7	0	9	550	7	0	9	550	7	0	0
9	600	2	0	9	600	2	0	9	600	2	0	0
9	600	2.5	0	9	600	2.5	0	9	600	2.5	0	0
9	600	3	0	9	600	3	0	9	600	3	0	0
9	600	3.5	0	9	600	3.5	0	9	600	3.5	0	0
9	600	4	0	9	600	4	0	9	600	4	0	0
9	600	4.5	0	9	600	4.5	0	9	600	4.5	0	0
9	600	5	0	9	600	5	0	9	600	5	0	0
9	600	5.5	0	9	600	5.5	0	9	600	5.5	0	0
9	600	6	0	9	600	6	0	9	600	6	0	0
9	600	6.5	0	9	600	6.5	0	9	600	6.5	0	0
9	600	7	0	9	600	7	0	9	600	7	0	0
9	650	2	0	9	650	2	0	9	650	2	0	0
9	650	2.5	0	9	650	2.5	0	9	650	2.5	0	0
9	650	3	0	9	650	3	0	9	650	3	0	0
9	650	3.5	0	9	650	3.5	0	9	650	3.5	0	0
9	650	4	0	9	650	4	0	9	650	4	0	0

9	650	4.5	0	9	650	4.5	0	9	650	4.5	0	0
9	650	5	0	9	650	5	0	9	650	5	0	0
9	650	5.5	0	9	650	5.5	0	9	650	5.5	0	0
9	650	6	0	9	650	6	0	9	650	6	0	0
9	650	6.5	0	9	650	6.5	0	9	650	6.5	0	0
9	650	7	0	9	650	7	0	9	650	7	0	0
9	700	2	0	9	700	2	0	9	700	2	0	0
9	700	2.5	0	9	700	2.5	0	9	700	2.5	0	0
9	700	3	0	9	700	3	0	9	700	3	0	0
9	700	3.5	0	9	700	3.5	0	9	700	3.5	0	0
9	700	4	0	9	700	4	0	9	700	4	0	0
9	700	4.5	0	9	700	4.5	0	9	700	4.5	0	0
9	700	5	0	9	700	5	0	9	700	5	0	0
9	700	5.5	0	9	700	5.5	0	9	700	5.5	0	0
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16	750	7.5	0	16	750	7.5	0	16	750	7.5	0	0
16	750	8	0	16	750	8	0	16	750	8	0	0
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16	900	9	0	16	900	9	0	16	900	9	0	0
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17	750	8	0	17	750	8	0	17	750	8	0	0

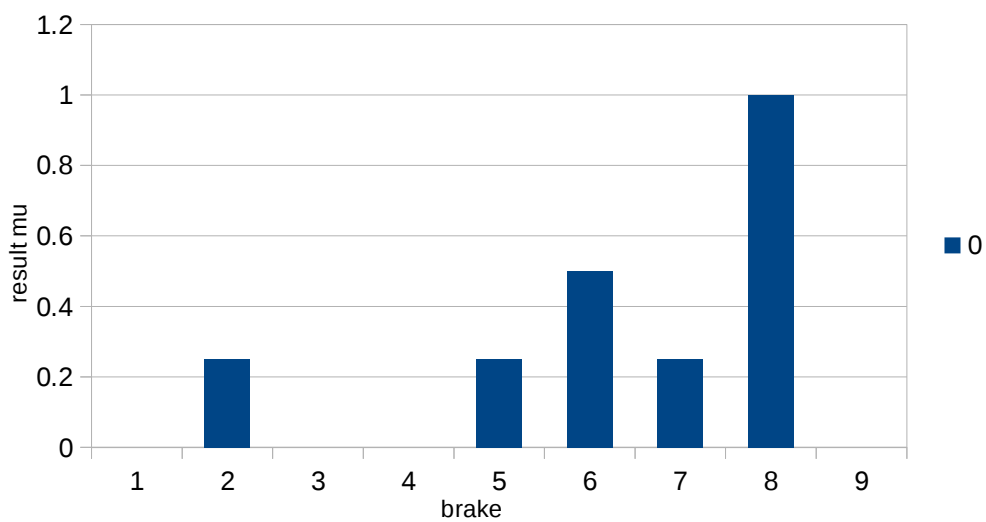
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18	900	7.5	0	18	900	7.5	0	18	900	7.5	0	0
18	900	8	0	18	900	8	0	18	900	8	0	0
18	900	8.5	0	18	900	8.5	0	18	900	8.5	0	0
18	900	9	0	18	900	9	0	18	900	9	0	0

Task 4

Let's pick up from big common table(Task 3) constant speed=9, distance=500, brake from 0 to 9:

speed	distance	brake	result MU
9	500	0	0
		1	0
		2	0.25
		3	0
		4	0
		5	0.25
		6	0.5
		7	0.25
		8	1
		9	0

Task 5



Let's calculate a point of balance with the help of formula :

$$\sum (X_i - X) \cdot \mu_i = 0$$

$$X = 14,5 / 2,25 = 6,45 - \text{optimal brake}$$