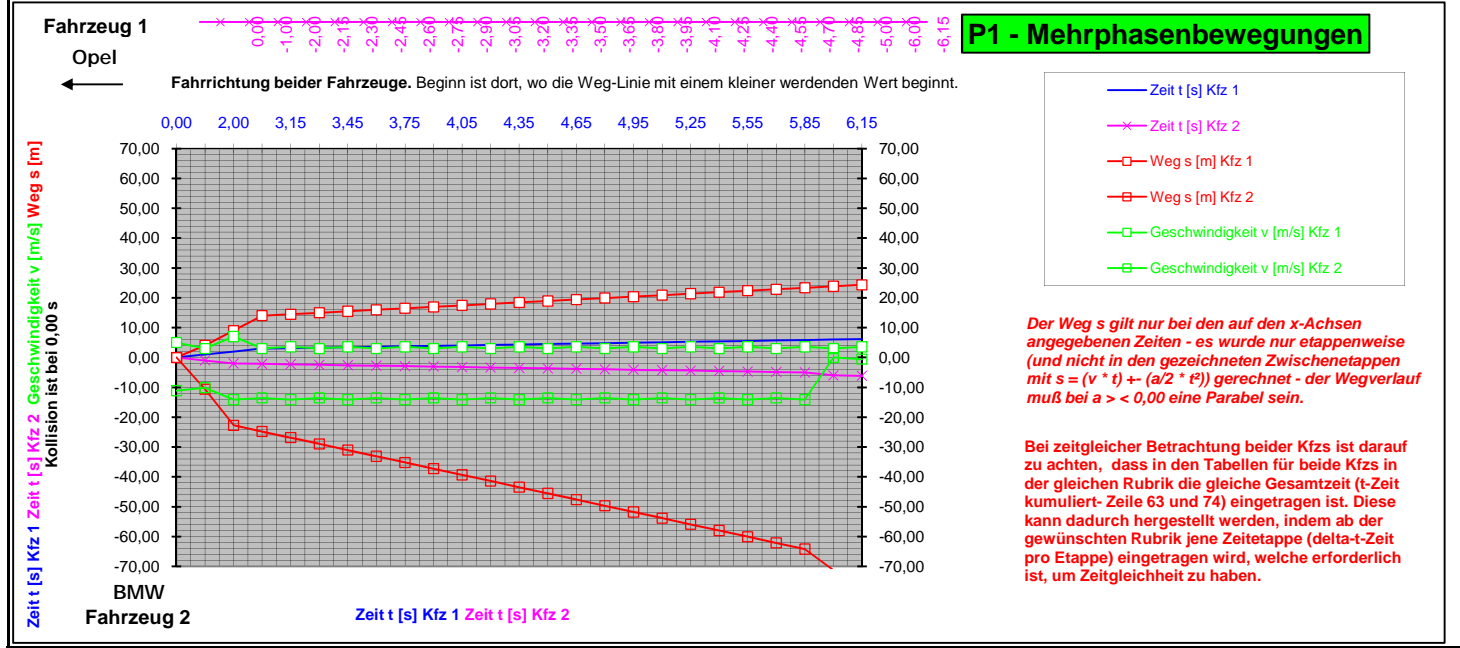


P1 - P6: erweitert		Wert -	Rechen -	System Ing. W. Huber		Stand:	Berechnung der Bremsverzögerung aus Bremstestversuch	
Vermeidbarkeitsberechnungen, Mehrphasenbewegungen		Eingabe	Ergebnis	© Copyright. Alle Rechte vorbehalten.		11.02.2013	tr und ta (Zeile 9 und 10) auf 0,00 setzen.	
P1 - t-ges1		Fahrzeug:	Opel	1 m/s = ^ 3,6 km/h			Angegebenen Bremsweg unter "Sges1-Weg-tr-Beginn"- Zeile 7 - e	
V0-Geschwindigkeit	[m/s]		16,671	16,670	16,667	16,665	27,778	Bei Ermittlung von a1 ist die Verzögerung a in ts ber
s1-Bremsweg	[m]	9,070		17,297	9,070	9,057	38,198	Es wird unterstellt, dass im angegebenen Bremsweg
Sges1-Weg-tr-Beginn	[m]		30,700	38,926	30,695	30,700	42,300	Bremsschwellweg enthalten ist.
a1-Verzögerung	[m/s²]	7,50					9,584	
tr-Reaktionszeit	[s]	1,10					0,00	
ta-Bremsansprechzeit	[s]	0,050					0,000	
ts-Bremsschwellzeit	[s]	0,150					0,150	
Vk-Kollisionsgeschw.	[m/s]	11,110		0,000	11,104	11,110	0,000	
V1-GeschwBegBremsung	[m/s]		16,108	16,108	16,105	16,102	27,059	
t-ges1-tr-Beginn	[s]		1,966	3,448	1,967	1,966		
t1-Bremszeit	[s]		0,666	2,148	0,667	0,666	2,823	
tv-Vorbremszeit	[s]		1,300	1,300	1,300	1,300		
s01-Vorbremsweg	[m]		21,630	21,629	21,625	21,622		
P2 -delta-t - t-ges1- >t-ges2								
delta-t-Zeitverlängerung	[s]	0,330						
V-VZ2-Vermeidbarkeit	[m/s]		15,243					
V-k2-th-Kollision	[m/s]		7,207					
t-ges2-Zeit	[s]		2,296					
s1-Weg	[m]		10,905					
P3 - a3 t-ges2								
a3-Verzögerung	[m/s²]	6,00						
V-VZ3-Vermeidbarkeit	[m/s]		14,868					
V-k3-theoretisch	[m/s]		8,439					
t-ges2-Zeit	[s]		2,296					
s1-Weg	[m]		11,388					
P4-delta-t0 -t-ges0- >t-ges4								
delta-t0-Zeitverlängerg[s]	[s]	0,233						
s-ges4-Weg	[m]		34,591					
t-ges0-Zeit	[s]		2,200					
t-ges4-Zeit	[s]		2,372					
V-k4-th-Kollision	[m/s]		8,066					
s4-Weg	[m]		12,961					
t4-Zeit	[s]		1,072					

P5 - a5		t-ges5	
t-ges5-Zeit	[s]	2,300	
v5-Geschwindigkeit	[m/s]		16,184
V-k5-theoretisch	[m/s]		9,690
s5-Weg	[m]		12,937
t5-Zeit	[s]		1,000
a5-Verzögerung	[m/s ²]		6,494
P6 - a6		delta-t6	
a6-Verzögerung	[m/s ²]	5,00	
delta-t6-Zeit	[s]	0,300	
V-VZ6-Vermeidbarkeit	[m/s]		15,463
V-k6-theoretisch	[m/s]		9,088
t-ges6-Zeit	[s]		2,500
s6-Weg	[m]		14,504
t6-Zeit	[s]		1,200
v6-Geschwindigkeit	[m/s]		15,088

P1 - Mehrphasenbewegungen			P1 - Mehrphasenbewegungen									
In der gleichen Rubrik die entsprechenden Werte eingeben (v-Kollision in Rubrik B, ab Rubrik C a1 oder a0 und delta-t).			Wenn eine Betriebsbremsung mit einem ents									
Version nicht automatisch. Bei zeitgleicher Betrachtung beider Kfzs ist darauf zu achten, dass gleiche Zeiten in den Zeiträumen für beide Kfz eingetragen sind.			Diese kann dadurch hergestel									
Fahrzeug 1	Opel		<----- so wird gefahren; in dieser Richtung ist zuerst der Periodenanfang zu sehen, dann kom									
Vk-Kollisionsgeschw. [m/s]	5,000	5,000	gerechnet wird so ----->									
a1-Verzögerung: positiv [m/s²]	-2,00	-2,00	4,00	-4,00	3,75	-3,75	3,75	-3,75	3,75	-3,75	3,75	
a0-Beschleunigung: negativ [m/s²]	a0- als Negativwert in der Zeile 60 eingeben.											
delta-t-Zeit pro Etappe[s]	0,00	1,000	1,000	1,00	0,15	0,15	0,15	0,15	0,15	0,15	0,15	
t-Zeit kumuliert [s]	0,00	1,00	2,00	3,00	3,15	3,30	3,45	3,60	3,75	3,90	4,05	
deltaV-Geschw pro Etappe [m/s]		-2,000	4,000	-4,000	0,563	-0,563	0,563	-0,563	0,563	-0,563	0,563	
V-Geschw. kumuliert [m/s]	5,000	3,000	7,000	3,000	3,563	3,000	3,563	3,000	3,563	3,000	3,563	
delta-s-Weg pro Etappe [m]	0,00	4,00	5,00	5,00	0,49	0,49	0,49	0,49	0,49	0,49	0,49	
s-Weg kumuliert [m]	0,00	4,00	9,00	14,00	14,49	14,98	15,48	15,97	16,46	16,95	17,45	
Fahrzeug 2	BMW		<----- so wird gefahren; in dieser Richtung ist zuerst der Periodenanfang zu sehen, dann kom									
Vk-Kollisionsgeschw. [m/s]	11,110	-11,110	gerechnet wird so ----->									
a1-Verzögerung: positiv [m/s²]	-1,00	-1,00	4,00	-3,75	3,75	-3,75	3,75	-3,75	3,75	-3,75	3,75	
a0-Beschleunigung: negativ [m/s²]	a0 - als Negativwert in der Zeile 71 eingeben.											
delta-t-Zeit pro Etappe [s]	0,00	1,000	1,000	0,15	0,15	0,15	0,15	0,15	0,15	0,15	0,15	
t-Zeit kumuliert [s]	0,00	-1,00	-2,00	-2,15	-2,30	-2,45	-2,60	-2,75	-2,90	-3,05	-3,20	
deltaV-Geschw pro Etapp[m/s]		-1,000	4,000	-0,563	0,563	-0,563	0,563	-0,563	0,563	-0,563	0,563	
V-Geschw. kumuliert [m/s]	-11,110	-10,110	-14,110	-13,548	-14,110	-13,548	-14,110	-13,548	-14,110	-13,548	-14,110	
delta-s-Weg pro Etappe [m]	0,00	-10,61	-12,11	-2,07	-2,07	-2,07	-2,07	-2,07	-2,07	-2,07	-2,07	
s-Weg kumuliert [m]	0,00	-10,61	-22,72	-24,79	-26,87	-28,94	-31,02	-33,09	-35,17	-37,24	-39,31	

Die Diagramme werden automatisch mit den entsprechenden Werten aus den beiden obigen Tabellen erstellt.
 Falls der Wert auf der linken y-Skala anders ist als auf der rechten y-Skala des Diagramms ist die y-Skala zu korrigieren.
 Es ist auf der linken oder rechten y-Skala ein Zahlenwert mit Doppelklick anzuklicken. Es öffnet das Fenster: "Achsen formatieren".
 Dort unter "Skalierung" anklicken. Bei Höchstwert den aufgerundeten größten Wert aus der Zeile y-Skala eingeben.
 Wenn 0,0 der y-Achse links mit der y-Achse rechts nicht auf der gleichen Linie liegt ist folgendes zu tun:
 Es ist auf der linken oder rechten y-Skala ein Zahlenwert mit Doppelklick anzuklicken. Es öffnet das Fenster: "Achsen formatieren".
 Dort unter "Skalierung" anklicken. Dort unter "Höchstwert" und unter "Kleinstwert" die geänderten Werte eingeben.
 Gleiche Werte für y-Achse links und y-Achse rechts eingeben.



P1z - Mehrphasenbewegungen			P1z - Mehrphasenbewegungen									
In der gleichen Rubrik die entsprechenden Werte eingeben (v-Kollision in Rubrik B, ab Rubrik C a1 oder a0 oder delta-t oder anderes). Wenn eine Betriebsbremsung mit einem entsprechend großen Verzögerungswert (a0) wird immer unterstellt, dass dies eine Betriebsbremsung ist. Es wird immer automatisch im Programm um a/2*ts die Geschwindigkeit reduziert. Bremschwellzeit "ts" aus dem Feld "B1"												
Fahrzeug 1												
ts-Bremschwellzeit [s]	0,150	Opel	<----- so wird gefahren; in dieser Richtung ist zuerst der Periodenanfang, dann kommt das Pe									
Variante 1	Fahrzeug 1		In Grafik darstellen: ist in Farbe rot: wählen:				s-Weg kumuliert [m]		ja		V-Geschwindigkeit [m/s]	
Vk-Kollisionsgeschwindigkeit [m/s]	5,000	5,000	gerechnet wird so ----->									
a1-Verzögerung: positiv [m/s²]	0,000	4,167	-3,750	4,167	-3,750	4,167	-3,750	4,167	0,000	-2,000	0,000	
a0-Beschleunigung: negativ [m/s²]	a0 - als Negativwert in der Zeile 119 eingeben.											
delta-t-Zeit pro Etappe [s]	0,00	1,28	1,33	1,28	1,33	1,28	1,33	1,28	3,00	3,00	3,00	
t-Zeit kumuliert [s]	0,00	1,28	2,61	3,89	5,23	6,51	7,84	9,12	12,12	15,12	18,12	
deltaV-Geschw pro Etappe [m/s]	0,000	5,021	-5,000	5,021	-5,000	5,021	-5,000	5,021	0,000	-6,000	0,000	
V-Geschw. kumuliert [m/s]	5,000	10,021	5,021	10,042	5,042	10,063	5,063	10,083	10,083	4,083	4,083	
s-Weg in Bremschwellphase [m]	0,000	1,480	0,000	1,483	0,000	1,486	0,000	1,489	0,000	0,000	0,000	
delta-s-Weg pro Etappe [m]	0,00	9,79	10,03	9,82	10,06	9,84	10,08	9,87	30,25	21,25	12,25	
s-Weg kumuliert [m]	0,00	9,79	19,82	29,63	39,69	49,53	59,62	69,49	99,74	120,99	133,24	
Variante 2	Fahrzeug 1											
V-Geschw.Periodenanfang [m/s]	5,000	10,000	5,000	10,000	5,000	0,000	15,000	0,000	10,000	5,000	10,000	
V-Geschw.Periodenende [m/s]	5,000	5,000	10,000	5,000	10,000	5,000	0,000	15,000	0,000	10,000	5,000	
delta-s-Weg pro Etappe [m]	0,00	10,00	10,00	10,00	10,00	30,00	30,00	30,00	10,00	10,00	10,00	
s-Weg kumuliert [m]	0,00	10,00	20,00	30,00	40,00	70,00	100,00	130,00	140,00	150,00	160,00	
a1-Verzögerung: positiv [m/s²]	0,000	3,750	-3,750	3,750	-3,750	-0,417	3,750	-3,750	5,000	-3,750	3,750	
a0-Beschleunigung: negativ [m/s²]	0,000	4,075	-3,750	4,075	-3,750	-0,417	3,900	-3,750	5,431	-3,750	4,075	
s-Weg in Bremschwellphase [m]	0,000	1,479	0,000	1,479	0,000	0,000	2,229	0,000	1,472	0,000	1,479	
delta-t-Zeit pro Etappe [s]	0,00	1,31	1,33	1,31	1,33	12,00	3,92	4,00	1,92	1,33	1,31	
t-Zeit kumuliert [s]	0,00	1,31	2,64	3,95	5,28	17,28	21,21	25,21	27,13	28,46	29,77	
Variante 3	Fahrzeug 1											
V-Geschw.Periodenanfang [m/s]	5,000	10,000	5,000	10,000	5,000	10,000	5,000	30,000	5,000	10,000	5,000	
V-Geschw.Periodenende [m/s]	5,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	30,000	5,000	10,000	
a1-Verzögerung: positiv [m/s²]	0,000	4,167	-3,750	4,167	-3,750	4,167	-3,750	6,000	-3,000	4,167	-3,750	
a0-Beschleunigung: negativ [m/s²]	a0 - als Negativwert in der Zeile 140 eingeben.											
s-Weg in Bremschwellphase [m]	0,000	1,477	0,000	1,477	0,000	1,477	0,000	4,466	0,000	1,477	0,000	
delta-s-Weg pro Etappe [m]	0,00	9,74	10,00	9,74	10,00	9,74	10,00	75,15	145,83	9,74	10,00	
s-Weg kumuliert [m]	0,00	9,74	19,74	29,48	39,48	49,21	59,21	134,36	280,20	289,94	299,94	
delta-t-Zeit pro Etappe [s]	0,00	1,27	1,33	1,27	1,33	1,27	1,33	4,24	8,33	1,27	1,33	
t-Zeit kumuliert [s]	0,00	1,27	2,61	3,88	5,22	6,49	7,82	12,07	20,40	21,67	23,01	

Variante 4		Fahrzeug 1											
V-Geschw.Periodenanfang [m/s]	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	30,000	20,000	10,000	5,000
V-Geschw.Periodenende [m/s]	5,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	30,000	20,000	10,000
delta-t-Zeit pro Etappe [s]	0,00	1,30	1,33	1,30	1,33	1,30	1,33	1,30	1,33	3,00	5,00	3,00	1,33
t-Zeit kumuliert [s]	0,00	1,30	2,63	3,93	5,27	6,57	7,90	10,90	15,90	18,90	20,23		
a1-Verzögerung: positiv [m/s ²]	0,000	3,846	-3,750	3,846	-3,750	3,846	-3,750	8,333	-2,000	-3,333	-3,750		
a0-Beschleunigung: negativ [m/s ²]	0,000	4,102	-3,750	4,102	-3,750	4,102	-3,750	8,557	-2,000	-3,333	-3,750		
s-Weg in Bremschwelphase [m]	0,000	1,478	0,000	1,478	0,000	1,478	0,000	4,453	0,000	0,000	0,000		
delta-s-Weg pro Etappe [m]	0,00	9,93	10,00	9,93	10,00	9,93	10,00	53,41	125,00	45,00	10,00		
s-Weg kumuliert [m]	0,00	9,93	19,93	29,85	39,85	49,78	59,78	113,19	238,19	283,19	293,19		
Variante 5		Fahrzeug 1											
V-Geschw.Periodenanfang [m/s]	11,110	16,670	16,670	16,670	13,890	13,890	25,000	30,000	20,000	10,000	5,000		
V-Geschw.Periodenende [m/s]	11,110	11,110	16,670	16,670	16,670	13,890	13,890	25,000	30,000	20,000	10,000		
delta-s-Weg pro Etappe [m]	0,00	0,00	21,60	40,00		70,00	30,00				20,00	10,00	
a1-Verzögerung: positiv [m/s ²]	0,000	7,000			-1,500			7,500	-1,500				
a0-Beschleunigung: negativ [m/s ²]	<i>a0 - als Negativwert in der Zeile 163 eingeben.</i>												
a1-Verzögerung: positiv [m/s ²]	0,000	0,000	0,000	0,000	0,000	0,000	7,201	0,000	0,000	-7,500	-3,750		
a0-Beschleunigung: negativ [m/s ²]	0,000	0,000	0,000	0,000	0,000	0,000	7,709	0,000	0,000	-7,500	-3,750		
s-Weg in Bremschwelphase [m]	0,000	2,461	0,000	0,000	0,000	0,000	3,709	4,458	0,000	0,000	0,000		
delta-s-Weg pro Etappe [m]	0,00	12,26	21,60	40,00	28,32	70,00	30,00	20,56	166,67	20,00	10,00		
s-Weg kumuliert [m]	0,00	12,26	33,86	73,86	102,18	172,18	202,18	222,74	389,41	409,41	419,41		
delta-t-Zeit pro Etappe [s]	0,00	0,87	1,30	2,40	1,85	5,04	1,52	0,74	6,67	1,33	1,33		
t-Zeit kumuliert [s]	0,00	0,87	2,17	4,56	6,42	11,46	12,98	13,72	20,39	21,72	23,05		

Fahrzeug 2												
ts-Bremsschwellzeit [s]	0,150	VW	<----- so wird gefahren; in dieser Richtung ist zuerst der Periodenanfang, dann kommt das Pe									
Variante 1	Fahrzeug 2		In Grafik darstellen: ist in Farbe rot: wählen:						s-Weg kumuliert [m]	ja	V-Geschwindigkeit [m/s]	
Vk-Kollisionsgeschwindigkeit [m/s]	5,000	5,000	gerechnet wird so ----->									
a1-Verzögerung: positiv [m/s²]	0,000	4,167	-3,750	4,167	-3,750	4,167	-3,750	4,167	0,000	-2,000	0,000	
a0-Beschleunigung: negativ [m/s²]	<i>a0 - als Negativwert in der Zeile 177 eingeben.</i>											
delta-t-Zeit pro Etappe [s]	0,00	1,28	1,33	1,28	1,33	1,28	1,33	1,28	3,00	3,00	3,00	
t-Zeit kumuliert [s]	0,00	-1,28	-2,61	-3,89	-5,23	-6,51	-7,84	-9,12	-12,12	-15,12	-18,12	
deltaV-Geschw pro Etappe [m/s]	0,000	5,021	-5,000	5,021	-5,000	5,021	-5,000	5,021	0,000	-6,000	0,000	
V-Geschw. kumuliert [m/s]	5,000	10,021	5,021	10,042	5,042	10,063	5,063	10,083	10,083	4,083	4,083	
s-Weg in Bremsschwellphase [m]	0,000	1,480	0,000	1,483	0,000	1,486	0,000	1,489	0,000	0,000	0,000	
delta-s-Weg pro Etappe [m]	0,00	9,79	10,03	9,82	10,06	9,84	10,08	9,87	30,25	21,25	12,25	
s-Weg kumuliert [m]	0,00	9,79	19,82	29,63	39,69	49,53	59,62	69,49	99,74	120,99	133,24	
Variante 2												
Fahrzeug 2												
V-Geschw.Periodenanfang [m/s]	5,000	10,000	5,000	10,000	5,000	0,000	15,000	0,000	10,000	5,000	10,000	
V-Geschw.Periodenende [m/s]	5,000	5,000	10,000	5,000	10,000	5,000	0,000	15,000	0,000	10,000	5,000	
delta-s-Weg pro Etappe [m]	0,00	10,00	10,00	10,00	10,00	30,00	30,00	30,00	10,00	10,00	10,00	
s-Weg kumuliert [m]	0,00	10,00	20,00	30,00	40,00	70,00	100,00	130,00	140,00	150,00	160,00	
a1-Verzögerung: positiv [m/s²]	0,000	3,750	-3,750	3,750	-3,750	-0,417	3,750	-3,750	5,000	-3,750	3,750	
a0-Beschleunigung: negativ [m/s²]	0,000	4,075	-3,750	4,075	-3,750	-0,417	3,900	-3,750	5,431	-3,750	4,075	
s-Weg in Bremsschwellphase [m]	0,000	1,479	0,000	1,479	0,000	0,000	2,229	0,000	1,472	0,000	1,479	
delta-t-Zeit pro Etappe [s]	0,00	1,31	1,33	1,31	1,33	12,00	3,92	4,00	1,92	1,33	1,31	
t-Zeit kumuliert [s]	0,00	-1,31	-2,64	-3,95	-5,28	-17,28	-21,21	-25,21	-27,13	-28,46	-29,77	
Variante 3												
Fahrzeug 2												
V-Geschw.Periodenanfang [m/s]	5,000	10,000	5,000	10,000	5,000	10,000	5,000	30,000	5,000	10,000	5,000	
V-Geschw.Periodenende [m/s]	5,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	30,000	5,000	10,000	
a1-Verzögerung: positiv [m/s²]	0,000	4,167	-3,750	4,167	-3,750	4,167	-3,750	6,000	-3,000	4,167	-3,750	
a0-Beschleunigung: negativ [m/s²]	<i>a0 - als Negativwert in der Zeile 199 eingeben.</i>											
s-Weg in Bremsschwellphase [m]	0,000	1,477	0,000	1,477	0,000	1,477	0,000	4,466	0,000	1,477	0,000	
delta-s-Weg pro Etappe [m]	0,00	9,74	10,00	9,74	10,00	9,74	10,00	75,15	145,83	9,74	10,00	
s-Weg kumuliert [m]	0,00	9,74	19,74	29,48	39,48	49,21	59,21	134,36	280,20	289,94	299,94	
delta-t-Zeit pro Etappe [s]	0,00	1,27	1,33	1,27	1,33	1,27	1,33	4,24	8,33	1,27	1,33	
t-Zeit kumuliert [s]	0,00	-1,27	-2,61	-3,88	-5,22	-6,49	-7,82	-12,07	-20,40	-21,67	-23,01	

Variante 4	Fahrzeug 2												
V-Geschw.Periodenanfang [m/s]	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	30,000	20,000	10,000	5,000
V-Geschw.Periodenende [m/s]	5,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	30,000	20,000	10,000
delta-t-Zeit pro Etappe [s]	0,00	1,30	1,33	1,30	1,33	1,30	1,33	1,30	1,33	3,00	5,00	3,00	1,33
t-Zeit kumuliert [s]	0,00	-1,30	-2,63	-3,93	-5,27	-6,57	-7,90	-9,23	-10,57	-11,90	-13,23	-14,57	-15,90
a1-Verzögerung: positiv [m/s ²]	0,000	3,846	-3,750	3,846	-3,750	3,846	-3,750	3,846	-3,750	8,333	-2,000	-3,333	-3,750
a0-Beschleunigung: negativ [m/s ²]	0,000	4,102	-3,750	4,102	-3,750	4,102	-3,750	4,102	-3,750	8,557	-2,000	-3,333	-3,750
s-Weg in Bremschwelphase [m]	0,000	1,478	0,000	1,478	0,000	1,478	0,000	1,478	0,000	4,453	0,000	0,000	0,000
delta-s-Weg pro Etappe [m]	0,00	9,93	10,00	9,93	10,00	9,93	10,00	9,93	10,00	53,41	125,00	45,00	10,00
s-Weg kumuliert [m]	0,00	9,93	19,93	29,85	39,85	49,78	59,78	69,78	79,78	113,19	238,19	283,19	293,19
Variante 5	Fahrzeug 2												
V-Geschw.Periodenanfang [m/s]	11,110	16,670	16,670	16,670	13,890	13,890	25,000	30,000	20,000	10,000	10,000	5,000	5,000
V-Geschw.Periodenende [m/s]	11,110	11,110	16,670	16,670	16,670	13,890	13,890	25,000	30,000	30,000	20,000	10,000	10,000
delta-s-Weg pro Etappe [m]	0,00	0,00	21,60	40,00			70,00	30,00				20,00	10,00
a1-Verzögerung: positiv [m/s ²]	0,000	7,000			-1,500				7,500	-1,500			
a0-Beschleunigung: negativ [m/s ²]	<i>a0 - als Negativwert in der Zeile 220 eingeben.</i>												
a1-Verzögerung: positiv [m/s ²]	0,000	0,000	0,000	0,000	0,000	0,000	0,000	7,201	0,000	0,000	-7,500	-3,750	-3,750
a0-Beschleunigung: negativ [m/s ²]	0,000	0,000	0,000	0,000	0,000	0,000	0,000	7,709	0,000	0,000	-7,500	-3,750	-3,750
s-Weg in Bremschwelphase [m]	0,000	2,461	0,000	0,000	0,000	0,000	0,000	3,709	4,458	0,000	0,000	0,000	0,000
delta-s-Weg pro Etappe [m]	0,00	12,26	21,60	40,00	28,32	70,00	30,00	20,56	166,67	20,00	10,00	10,00	10,00
s-Weg kumuliert [m]	0,00	12,26	33,86	73,86	102,18	172,18	202,18	222,74	389,41	409,41	419,41	419,41	419,41
delta-t-Zeit pro Etappe [s]	0,00	0,87	1,30	2,40	1,85	5,04	1,52	0,74	6,67	1,33	1,33	1,33	1,33
t-Zeit kumuliert [s]	0,00	-0,87	-2,17	-4,56	-6,42	-11,46	-12,98	-13,72	-20,39	-21,72	-21,72	-23,05	-23,05

Die Größe der x-Achse und der y-Achse sowie der Hilfsintervalle wird automatisch erstellt.											
Die Diagramme werden automatisch mit den entsprechenden Werten aus den obigen Tabellen erstellt. Der s-Weg <small>kumuliert pro Etappe (Rubrik, senkrechte Kolonne)</small> wird bei einer											
Der s-Weg gilt bei den auf der y-Achse angegebenen Zeiten (die Punkte sind die Etappenmarkierungen) - es wurde etappenweise - innerhalb der Etappe mit $\Delta s =$											
Ab hier: Tabellen für die Erstellung von t-Zeit <small>kumuliert pro Etappe (Rubrik, senkrechte Kolonne)</small> und s-Weg <small>kumuliert pro Etappe (Rubrik, senkrechte Kolonne)</small>											
Variante 1	Fahrzeug 1										
delta-t-Zeit pro Unteretappe [s]	0,00	0,0595	0,0667	0,0595	0,0667	0,0595	0,0667	0,0595	0,1500	0,1500	0,1500
delta-t-Zeit 00. Unteretappe kumuliert [s]Beginn	0,0000	1,2800	2,6133	3,8933	5,2267	6,5067	7,8400	9,1200	12,1200	15,1200	
delta-t-Zeit 01. Unteretappe kumuliert [s]	0,0595	1,3467	2,6728	3,9600	5,2861	6,5733	7,8995	9,2700	12,2700	15,2700	
delta-t-Zeit 02. Unteretappe kumuliert [s]	0,1189	1,4133	2,7323	4,0267	5,3456	6,6400	7,9589	9,4200	12,4200	15,4200	
delta-t-Zeit 03. Unteretappe kumuliert [s]	0,1784	1,4800	2,7918	4,0933	5,4051	6,7067	8,0184	9,5700	12,5700	15,5700	
delta-t-Zeit 04. Unteretappe kumuliert [s]	0,2379	1,5467	2,8512	4,1600	5,4646	6,7733	8,0779	9,7200	12,7200	15,7200	
delta-t-Zeit 05. Unteretappe kumuliert [s]	0,2974	1,6133	2,9107	4,2267	5,5240	6,8400	8,1374	9,8700	12,8700	15,8700	
delta-t-Zeit 06. Unteretappe kumuliert [s]	0,3568	1,6800	2,9702	4,2933	5,5835	6,9067	8,1968	10,0200	13,0200	16,0200	
delta-t-Zeit 07. Unteretappe kumuliert [s]	0,4163	1,7467	3,0296	4,3600	5,6430	6,9733	8,2563	10,1700	13,1700	16,1700	
delta-t-Zeit 08. Unteretappe kumuliert [s]	0,4758	1,8133	3,0891	4,4267	5,7025	7,0400	8,3158	10,3200	13,3200	16,3200	
delta-t-Zeit 09. Unteretappe kumuliert [s]	0,5353	1,8800	3,1486	4,4933	5,7619	7,1067	8,3753	10,4700	13,4700	16,4700	
delta-t-Zeit 10. Unteretappe kumuliert [s]	0,5947	1,9467	3,2081	4,5600	5,8214	7,1733	8,4347	10,6200	13,6200	16,6200	
delta-t-Zeit 11. Unteretappe kumuliert [s]	0,6542	2,0133	3,2675	4,6267	5,8809	7,2400	8,4942	10,7700	13,7700	16,7700	
delta-t-Zeit 12. Unteretappe kumuliert [s]	0,7137	2,0800	3,3270	4,6933	5,9404	7,3067	8,5537	10,9200	13,9200	16,9200	
delta-t-Zeit 13. Unteretappe kumuliert [s]	0,7732	2,1467	3,3865	4,7600	5,9998	7,3733	8,6132	11,0700	14,0700	17,0700	
delta-t-Zeit 14. Unteretappe kumuliert [s]	0,8326	2,2133	3,4460	4,8267	6,0593	7,4400	8,6726	11,2200	14,2200	17,2200	
delta-t-Zeit 15. Unteretappe kumuliert [s]	0,8921	2,2800	3,5054	4,8933	6,1188	7,5067	8,7321	11,3700	14,3700	17,3700	
delta-t-Zeit 16. Unteretappe kumuliert [s]	0,9516	2,3467	3,5649	4,9600	6,1782	7,5733	8,7916	11,5200	14,5200	17,5200	
delta-t-Zeit 17. Unteretappe kumuliert [s]	1,0111	2,4133	3,6244	5,0267	6,2377	7,6400	8,8511	11,6700	14,6700	17,6700	
delta-t-Zeit 18. Unteretappe kumuliert [s]	1,0705	2,4800	3,6839	5,0933	6,2972	7,7067	8,9105	11,8200	14,8200	17,8200	
delta-t-Zeit 19. Unteretappe kumuliert [s]	1,1300	2,5467	3,7433	5,1600	6,3567	7,7733	8,9700	11,9700	14,9700	17,9700	
delta-t-Zeit 20. Unteretappe kumuliert [s]Ende	1,2800	2,6133	3,8933	5,2267	6,5067	7,8400	9,1200	12,1200	15,1200	18,1200	
delta-s-Weg 00. Unteretappe kumuliert [m]Beginn	0,000	9,790	19,818	29,634	39,690	49,533	59,617	69,487	99,737	120,988	
delta-s-Weg 01. Unteretappe kumuliert [m]	0,305	10,450	20,124	30,296	39,997	50,196	59,925	71,000	101,227	121,600	
delta-s-Weg 02. Unteretappe kumuliert [m]	0,624	11,093	20,444	30,940	40,319	50,842	60,249	72,512	102,673	122,213	
delta-s-Weg 03. Unteretappe kumuliert [m]	0,958	11,719	20,780	31,568	40,656	51,471	60,587	74,025	104,073	122,826	
delta-s-Weg 04. Unteretappe kumuliert [m]	1,307	12,329	21,130	32,179	41,007	52,083	60,939	75,537	105,428	123,438	
delta-s-Weg 05. Unteretappe kumuliert [m]	1,671	12,922	21,495	32,773	41,374	52,679	61,307	77,050	106,738	124,051	
delta-s-Weg 06. Unteretappe kumuliert [m]	2,049	13,498	21,875	33,351	41,754	53,258	61,689	78,562	108,003	124,663	
delta-s-Weg 07. Unteretappe kumuliert [m]	2,443	14,058	22,269	33,912	42,150	53,821	62,086	80,075	109,223	125,276	
delta-s-Weg 08. Unteretappe kumuliert [m]	2,851	14,601	22,678	34,457	42,560	54,367	62,497	81,587	110,398	125,888	
delta-s-Weg 09. Unteretappe kumuliert [m]	3,273	15,127	23,102	34,984	42,986	54,896	62,924	83,100	111,528	126,501	
delta-s-Weg 10. Unteretappe kumuliert [m]	3,711	15,637	23,541	35,496	43,425	55,408	63,365	84,612	112,613	127,113	
delta-s-Weg 11. Unteretappe kumuliert [m]	4,163	16,130	23,994	35,990	43,880	55,904	63,821	86,125	113,653	127,726	
delta-s-Weg 12. Unteretappe kumuliert [m]	4,630	16,607	24,462	36,468	44,349	56,384	64,291	87,637	114,648	128,338	
delta-s-Weg 13. Unteretappe kumuliert [m]	5,111	17,066	24,945	36,929	44,833	56,846	64,776	89,150	115,598	128,951	
delta-s-Weg 14. Unteretappe kumuliert [m]	5,607	17,509	25,443	37,373	45,332	57,292	65,277	90,662	116,503	129,563	
delta-s-Weg 15. Unteretappe kumuliert [m]	6,119	17,936	25,955	37,801	45,846	57,721	65,791	92,175	117,363	130,176	
delta-s-Weg 16. Unteretappe kumuliert [m]	6,644	18,346	26,482	38,212	46,374	58,134	66,321	93,687	118,178	130,788	
delta-s-Weg 17. Unteretappe kumuliert [m]	7,185	18,739	27,024	38,607	46,917	58,529	66,865	95,200	118,948	131,401	
delta-s-Weg 18. Unteretappe kumuliert [m]	7,740	19,115	27,580	38,984	47,475	58,909	67,424	96,712	119,673	132,013	
delta-s-Weg 19. Unteretappe kumuliert [m]	8,310	19,475	28,152	39,346	48,047	59,271	67,998	98,225	120,353	132,626	
delta-s-Weg 20. Unteretappe kumuliert [m]Ende	9,790	19,818	29,634	39,690	49,533	59,617	69,487	99,737	120,988	133,238	

Variante 2	Fahrzeug 1										
delta-t-Zeit pro Unteretappe [s]	0,00	0,0609	0,0667	0,0609	0,0667	0,6000	0,1986	0,2000	0,0933	0,0667	0,0609
delta-t-Zeit 00. Unteretappe kumuliert [s]Beginn	0,0000	1,3079	2,6412	3,9490	5,2824	17,2824	21,2059	25,2059	27,1280	28,4614	
delta-t-Zeit 01. Unteretappe kumuliert [s]	0,0609	1,3745	2,7021	4,0157	5,8824	17,4810	21,4059	25,2992	27,1947	28,5223	
delta-t-Zeit 02. Unteretappe kumuliert [s]	0,1219	1,4412	2,7631	4,0824	6,4824	17,6796	21,6059	25,3925	27,2614	28,5832	
delta-t-Zeit 03. Unteretappe kumuliert [s]	0,1828	1,5079	2,8240	4,1490	7,0824	17,8782	21,8059	25,4857	27,3280	28,6442	
delta-t-Zeit 04. Unteretappe kumuliert [s]	0,2438	1,5745	2,8849	4,2157	7,6824	18,0768	22,0059	25,5790	27,3947	28,7051	
delta-t-Zeit 05. Unteretappe kumuliert [s]	0,3047	1,6412	2,9459	4,2824	8,2824	18,2754	22,2059	25,6723	27,4614	28,7661	
delta-t-Zeit 06. Unteretappe kumuliert [s]	0,3656	1,7079	3,0068	4,3490	8,8824	18,4740	22,4059	25,7655	27,5280	28,8270	
delta-t-Zeit 07. Unteretappe kumuliert [s]	0,4266	1,7745	3,0678	4,4157	9,4824	18,6726	22,6059	25,8588	27,5947	28,8879	
delta-t-Zeit 08. Unteretappe kumuliert [s]	0,4875	1,8412	3,1287	4,4824	10,0824	18,8712	22,8059	25,9521	27,6614	28,9489	
delta-t-Zeit 09. Unteretappe kumuliert [s]	0,5485	1,9079	3,1896	4,5490	10,6824	19,0699	23,0059	26,0454	27,7280	29,0098	
delta-t-Zeit 10. Unteretappe kumuliert [s]	0,6094	1,9745	3,2506	4,6157	11,2824	19,2685	23,2059	26,1386	27,7947	29,0708	
delta-t-Zeit 11. Unteretappe kumuliert [s]	0,6703	2,0412	3,3115	4,6824	11,8824	19,4671	23,4059	26,2319	27,8614	29,1317	
delta-t-Zeit 12. Unteretappe kumuliert [s]	0,7313	2,1079	3,3725	4,7490	12,4824	19,6657	23,6059	26,3252	27,9280	29,1926	
delta-t-Zeit 13. Unteretappe kumuliert [s]	0,7922	2,1745	3,4334	4,8157	13,0824	19,8643	23,8059	26,4184	27,9947	29,2536	
delta-t-Zeit 14. Unteretappe kumuliert [s]	0,8532	2,2412	3,4943	4,8824	13,6824	20,0629	24,0059	26,5117	28,0614	29,3145	
delta-t-Zeit 15. Unteretappe kumuliert [s]	0,9141	2,3079	3,5553	4,9490	14,2824	20,2615	24,2059	26,6050	28,1280	29,3755	
delta-t-Zeit 16. Unteretappe kumuliert [s]	0,9750	2,3745	3,6162	5,0157	14,8824	20,4601	24,4059	26,6982	28,1947	29,4364	
delta-t-Zeit 17. Unteretappe kumuliert [s]	1,0360	2,4412	3,6772	5,0824	15,4824	20,6587	24,6059	26,7915	28,2614	29,4973	
delta-t-Zeit 18. Unteretappe kumuliert [s]	1,0969	2,5079	3,7381	5,1490	16,0824	20,8573	24,8059	26,8848	28,3280	29,5583	
delta-t-Zeit 19. Unteretappe kumuliert [s]	1,1579	2,5745	3,7990	5,2157	16,6824	21,0559	25,0059	26,9780	28,3947	29,6192	
delta-t-Zeit 20. Unteretappe kumuliert [s]Ende	1,3079	2,6412	3,9490	5,2824	17,2824	21,2059	25,2059	27,1280	28,4614	29,7692	
delta-s-Weg 00. Unteretappe kumuliert [m]Beginn	0,000	10,000	20,000	30,000	40,000	70,000	100,000	130,000	140,000	150,000	
delta-s-Weg 01. Unteretappe kumuliert [m]	0,312	10,658	20,312	30,658	42,925	70,077	102,925	130,024	140,658	150,312	
delta-s-Weg 02. Unteretappe kumuliert [m]	0,640	11,300	20,640	31,300	45,700	70,308	105,700	130,094	141,300	150,640	
delta-s-Weg 03. Unteretappe kumuliert [m]	0,982	11,925	20,982	31,925	48,325	70,692	108,325	130,213	141,925	150,982	
delta-s-Weg 04. Unteretappe kumuliert [m]	1,340	12,533	21,340	32,533	50,800	71,231	110,800	130,378	142,533	151,340	
delta-s-Weg 05. Unteretappe kumuliert [m]	1,713	13,125	21,713	33,125	53,125	71,923	113,125	130,591	143,125	151,713	
delta-s-Weg 06. Unteretappe kumuliert [m]	2,101	13,700	22,101	33,700	55,300	72,769	115,300	130,850	143,700	152,101	
delta-s-Weg 07. Unteretappe kumuliert [m]	2,504	14,258	22,504	34,258	57,325	73,769	117,325	131,158	144,258	152,504	
delta-s-Weg 08. Unteretappe kumuliert [m]	2,922	14,800	22,922	34,800	59,200	74,923	119,200	131,512	144,800	152,922	
delta-s-Weg 09. Unteretappe kumuliert [m]	3,355	15,325	23,355	35,325	60,925	76,231	120,925	131,914	145,325	153,355	
delta-s-Weg 10. Unteretappe kumuliert [m]	3,804	15,833	23,804	35,833	62,500	77,693	122,500	132,362	145,833	153,804	
delta-s-Weg 11. Unteretappe kumuliert [m]	4,267	16,325	24,267	36,325	63,925	79,308	123,925	132,858	146,325	154,267	
delta-s-Weg 12. Unteretappe kumuliert [m]	4,746	16,800	24,746	36,800	65,200	81,078	125,200	133,402	146,800	154,746	
delta-s-Weg 13. Unteretappe kumuliert [m]	5,240	17,258	25,240	37,258	66,325	83,001	126,325	133,992	147,258	155,240	
delta-s-Weg 14. Unteretappe kumuliert [m]	5,749	17,700	25,749	37,700	67,300	85,078	127,300	134,630	147,700	155,749	
delta-s-Weg 15. Unteretappe kumuliert [m]	6,273	18,125	26,273	38,125	68,125	87,309	128,125	135,315	148,125	156,273	
delta-s-Weg 16. Unteretappe kumuliert [m]	6,812	18,533	26,812	38,533	68,800	89,694	128,800	136,048	148,533	156,812	
delta-s-Weg 17. Unteretappe kumuliert [m]	7,367	18,925	27,367	38,925	69,325	92,232	129,325	136,827	148,925	157,367	
delta-s-Weg 18. Unteretappe kumuliert [m]	7,936	19,300	27,936	39,300	69,700	94,925	129,700	137,654	149,300	157,936	
delta-s-Weg 19. Unteretappe kumuliert [m]	8,521	19,658	28,521	39,658	69,925	97,771	129,925	138,528	149,658	158,521	
delta-s-Weg 20. Unteretappe kumuliert [m]Ende	10,000	20,000	30,000	40,000	70,000	100,000	130,000	140,000	150,000	160,000	

Variante 3		Fahrzeug 1									
delta-t-Zeit pro Unteretappe [s]	0,00	0,0592	0,0667	0,0592	0,0667	0,0592	0,0667	0,2154	0,4167	0,0592	0,0667
delta-t-Zeit 00. Unteretappe kumuliert [s]Beginn	0,0000	1,2750	2,6083	3,8833	5,2166	6,4916	7,8250	12,0666	20,4000	21,6750	
delta-t-Zeit 01. Unteretappe kumuliert [s]	0,0592	1,3417	2,6675	3,9500	5,2759	6,5583	8,0403	12,4833	20,4592	21,7416	
delta-t-Zeit 02. Unteretappe kumuliert [s]	0,1184	1,4083	2,7267	4,0166	5,3351	6,6250	8,2557	12,9000	20,5184	21,8083	
delta-t-Zeit 03. Unteretappe kumuliert [s]	0,1776	1,4750	2,7860	4,0833	5,3943	6,6916	8,4710	13,3166	20,5776	21,8750	
delta-t-Zeit 04. Unteretappe kumuliert [s]	0,2368	1,5417	2,8452	4,1500	5,4535	6,7583	8,6864	13,7333	20,6368	21,9416	
delta-t-Zeit 05. Unteretappe kumuliert [s]	0,2961	1,6083	2,9044	4,2166	5,5127	6,8250	8,9017	14,1500	20,6960	22,0083	
delta-t-Zeit 06. Unteretappe kumuliert [s]	0,3553	1,6750	2,9636	4,2833	5,5719	6,8916	9,1171	14,5666	20,7552	22,0750	
delta-t-Zeit 07. Unteretappe kumuliert [s]	0,4145	1,7417	3,0228	4,3500	5,6311	6,9583	9,3324	14,9833	20,8144	22,1416	
delta-t-Zeit 08. Unteretappe kumuliert [s]	0,4737	1,8083	3,0820	4,4166	5,6903	7,0250	9,5478	15,4000	20,8737	22,2083	
delta-t-Zeit 09. Unteretappe kumuliert [s]	0,5329	1,8750	3,1412	4,4833	5,7495	7,0916	9,7631	15,8166	20,9329	22,2750	
delta-t-Zeit 10. Unteretappe kumuliert [s]	0,5921	1,9417	3,2004	4,5500	5,8087	7,1583	9,9785	16,2333	20,9921	22,3416	
delta-t-Zeit 11. Unteretappe kumuliert [s]	0,6513	2,0083	3,2596	4,6166	5,8680	7,2250	10,1938	16,6500	21,0513	22,4083	
delta-t-Zeit 12. Unteretappe kumuliert [s]	0,7105	2,0750	3,3188	4,6833	5,9272	7,2916	10,4092	17,0666	21,1105	22,4750	
delta-t-Zeit 13. Unteretappe kumuliert [s]	0,7697	2,1417	3,3781	4,7500	5,9864	7,3583	10,6245	17,4833	21,1697	22,5416	
delta-t-Zeit 14. Unteretappe kumuliert [s]	0,8289	2,2083	3,4373	4,8166	6,0456	7,4250	10,8399	17,9000	21,2289	22,6083	
delta-t-Zeit 15. Unteretappe kumuliert [s]	0,8882	2,2750	3,4965	4,8833	6,1048	7,4916	11,0552	18,3166	21,2881	22,6750	
delta-t-Zeit 16. Unteretappe kumuliert [s]	0,9474	2,3417	3,5557	4,9500	6,1640	7,5583	11,2706	18,7333	21,3473	22,7416	
delta-t-Zeit 17. Unteretappe kumuliert [s]	1,0066	2,4083	3,6149	5,0166	6,2232	7,6250	11,4859	19,1500	21,4065	22,8083	
delta-t-Zeit 18. Unteretappe kumuliert [s]	1,0658	2,4750	3,6741	5,0833	6,2824	7,6916	11,7013	19,5666	21,4658	22,8750	
delta-t-Zeit 19. Unteretappe kumuliert [s]	1,1250	2,5417	3,7333	5,1500	6,3416	7,7583	11,9166	19,9833	21,5250	22,9416	
delta-t-Zeit 20. Unteretappe kumuliert [s]Ende	1,2750	2,6083	3,8833	5,2166	6,4916	7,8250	12,0666	20,4000	21,6750	23,0083	
delta-s-Weg 00. Unteretappe kumuliert [m]Beginn	0,000	9,738	19,738	29,476	39,476	49,215	59,215	134,364	280,198	289,936	
delta-s-Weg 01. Unteretappe kumuliert [m]	0,303	10,397	20,042	30,135	39,780	49,873	60,431	146,604	280,501	290,594	
delta-s-Weg 02. Unteretappe kumuliert [m]	0,621	11,038	20,360	30,776	40,098	50,515	61,925	158,323	280,819	291,236	
delta-s-Weg 03. Unteretappe kumuliert [m]	0,954	11,663	20,692	31,401	40,430	51,140	63,697	169,521	281,152	291,861	
delta-s-Weg 04. Unteretappe kumuliert [m]	1,301	12,272	21,039	32,010	40,777	51,748	65,748	180,198	281,499	292,469	
delta-s-Weg 05. Unteretappe kumuliert [m]	1,663	12,863	21,401	32,601	41,139	52,340	68,077	190,354	281,861	293,061	
delta-s-Weg 06. Unteretappe kumuliert [m]	2,039	13,438	21,777	33,176	41,516	52,915	70,684	199,989	282,237	293,636	
delta-s-Weg 07. Unteretappe kumuliert [m]	2,430	13,997	22,168	33,735	41,907	53,473	73,569	209,104	282,628	294,194	
delta-s-Weg 08. Unteretappe kumuliert [m]	2,836	14,538	22,574	34,276	42,312	54,015	76,733	217,698	283,034	294,736	
delta-s-Weg 09. Unteretappe kumuliert [m]	3,256	15,063	22,994	34,801	42,732	54,540	80,175	225,771	283,454	295,261	
delta-s-Weg 10. Unteretappe kumuliert [m]	3,691	15,572	23,429	35,310	43,167	55,048	83,895	233,323	283,889	295,769	
delta-s-Weg 11. Unteretappe kumuliert [m]	4,140	16,063	23,879	35,801	43,617	55,540	87,893	240,354	284,338	296,261	
delta-s-Weg 12. Unteretappe kumuliert [m]	4,604	16,538	24,343	36,276	44,081	56,015	92,170	246,864	284,802	296,736	
delta-s-Weg 13. Unteretappe kumuliert [m]	5,083	16,997	24,821	36,735	44,559	56,473	96,725	252,854	285,281	297,194	
delta-s-Weg 14. Unteretappe kumuliert [m]	5,576	17,438	25,314	37,176	45,053	56,915	101,558	258,323	285,774	297,636	
delta-s-Weg 15. Unteretappe kumuliert [m]	6,084	17,863	25,822	37,601	45,561	57,340	106,670	263,271	286,282	298,061	
delta-s-Weg 16. Unteretappe kumuliert [m]	6,607	18,272	26,345	38,010	46,083	57,748	112,059	267,698	286,804	298,469	
delta-s-Weg 17. Unteretappe kumuliert [m]	7,144	18,663	26,882	38,401	46,620	58,140	117,727	271,604	287,341	298,861	
delta-s-Weg 18. Unteretappe kumuliert [m]	7,695	19,038	27,434	38,776	47,172	58,515	123,674	274,989	287,893	299,236	
delta-s-Weg 19. Unteretappe kumuliert [m]	8,262	19,397	28,000	39,135	47,738	58,873	129,898	277,854	288,459	299,594	
delta-s-Weg 20. Unteretappe kumuliert [m]Ende	9,738	19,738	29,476	39,476	49,215	59,215	134,364	280,198	289,936	299,936	

Variante 4		Fahrzeug 1									
delta-t-Zeit pro Unteretappe [s]	0,00	0,0605	0,0667	0,0605	0,0667	0,0605	0,0667	0,1500	0,2500	0,1500	0,0667
delta-t-Zeit 00. Unteretappe kumuliert [s]Beginn	0,0000	1,3000	2,6333	3,9333	5,2667	6,5667	7,9000	10,9000	15,9000	18,9000	
delta-t-Zeit 01. Unteretappe kumuliert [s]	0,0605	1,3667	2,6939	4,0000	5,3272	6,6333	8,0500	11,1500	16,0500	18,9667	
delta-t-Zeit 02. Unteretappe kumuliert [s]	0,1211	1,4333	2,7544	4,0667	5,3877	6,7000	8,2000	11,4000	16,2000	19,0333	
delta-t-Zeit 03. Unteretappe kumuliert [s]	0,1816	1,5000	2,8149	4,1333	5,4482	6,7667	8,3500	11,6500	16,3500	19,1000	
delta-t-Zeit 04. Unteretappe kumuliert [s]	0,2421	1,5667	2,8754	4,2000	5,5088	6,8333	8,5000	11,9000	16,5000	19,1667	
delta-t-Zeit 05. Unteretappe kumuliert [s]	0,3026	1,6333	2,9360	4,2667	5,5693	6,9000	8,6500	12,1500	16,6500	19,2333	
delta-t-Zeit 06. Unteretappe kumuliert [s]	0,3632	1,7000	2,9965	4,3333	5,6298	6,9667	8,8000	12,4000	16,8000	19,3000	
delta-t-Zeit 07. Unteretappe kumuliert [s]	0,4237	1,7667	3,0570	4,4000	5,6904	7,0333	8,9500	12,6500	16,9500	19,3667	
delta-t-Zeit 08. Unteretappe kumuliert [s]	0,4842	1,8333	3,1175	4,4667	5,7509	7,1000	9,1000	12,9000	17,1000	19,4333	
delta-t-Zeit 09. Unteretappe kumuliert [s]	0,5447	1,9000	3,1781	4,5333	5,8114	7,1667	9,2500	13,1500	17,2500	19,5000	
delta-t-Zeit 10. Unteretappe kumuliert [s]	0,6053	1,9667	3,2386	4,6000	5,8719	7,2333	9,4000	13,4000	17,4000	19,5667	
delta-t-Zeit 11. Unteretappe kumuliert [s]	0,6658	2,0333	3,2991	4,6667	5,9325	7,3000	9,5500	13,6500	17,5500	19,6333	
delta-t-Zeit 12. Unteretappe kumuliert [s]	0,7263	2,1000	3,3596	4,7333	5,9930	7,3667	9,7000	13,9000	17,7000	19,7000	
delta-t-Zeit 13. Unteretappe kumuliert [s]	0,7868	2,1667	3,4202	4,8000	6,0535	7,4333	9,8500	14,1500	17,8500	19,7667	
delta-t-Zeit 14. Unteretappe kumuliert [s]	0,8474	2,2333	3,4807	4,8667	6,1140	7,5000	10,0000	14,4000	18,0000	19,8333	
delta-t-Zeit 15. Unteretappe kumuliert [s]	0,9079	2,3000	3,5412	4,9333	6,1746	7,5667	10,1500	14,6500	18,1500	19,9000	
delta-t-Zeit 16. Unteretappe kumuliert [s]	0,9684	2,3667	3,6018	5,0000	6,2351	7,6333	10,3000	14,9000	18,3000	19,9667	
delta-t-Zeit 17. Unteretappe kumuliert [s]	1,0289	2,4333	3,6623	5,0667	6,2956	7,7000	10,4500	15,1500	18,4500	20,0333	
delta-t-Zeit 18. Unteretappe kumuliert [s]	1,0895	2,5000	3,7228	5,1333	6,3561	7,7667	10,6000	15,4000	18,6000	20,1000	
delta-t-Zeit 19. Unteretappe kumuliert [s]	1,1500	2,5667	3,7833	5,2000	6,4167	7,8333	10,7500	15,6500	18,7500	20,1667	
delta-t-Zeit 20. Unteretappe kumuliert [s]Ende	1,3000	2,6333	3,9333	5,2667	6,5667	7,9000	10,9000	15,9000	18,9000	20,2333	
delta-s-Weg 00. Unteretappe kumuliert [m]Beginn	0,000	9,941	19,941	29,882	39,882	49,823	59,823	113,278	238,278	283,278	
delta-s-Weg 01. Unteretappe kumuliert [m]	0,310	10,599	20,251	30,540	40,192	50,481	60,669	120,715	241,240	283,936	
delta-s-Weg 02. Unteretappe kumuliert [m]	0,635	11,241	20,576	31,182	40,517	51,123	61,708	128,028	244,128	284,578	
delta-s-Weg 03. Unteretappe kumuliert [m]	0,976	11,866	20,917	31,807	40,858	51,748	62,940	135,215	246,940	285,203	
delta-s-Weg 04. Unteretappe kumuliert [m]	1,331	12,474	21,272	32,415	41,213	52,356	64,363	142,278	249,678	285,811	
delta-s-Weg 05. Unteretappe kumuliert [m]	1,701	13,066	21,642	33,007	41,583	52,948	65,980	149,215	252,340	286,403	
delta-s-Weg 06. Unteretappe kumuliert [m]	2,086	13,641	22,027	33,582	41,968	53,523	67,789	156,028	254,928	286,978	
delta-s-Weg 07. Unteretappe kumuliert [m]	2,487	14,199	22,428	34,140	42,369	54,081	69,790	162,715	257,440	287,536	
delta-s-Weg 08. Unteretappe kumuliert [m]	2,902	14,741	22,843	34,682	42,784	54,623	71,984	169,278	259,878	288,078	
delta-s-Weg 09. Unteretappe kumuliert [m]	3,332	15,266	23,273	35,207	43,214	55,148	74,371	175,715	262,240	288,603	
delta-s-Weg 10. Unteretappe kumuliert [m]	3,778	15,774	23,719	35,715	43,660	55,656	76,950	182,028	264,528	289,111	
delta-s-Weg 11. Unteretappe kumuliert [m]	4,238	16,266	24,179	36,207	44,120	56,148	79,721	188,215	266,740	289,603	
delta-s-Weg 12. Unteretappe kumuliert [m]	4,714	16,741	24,655	36,682	44,596	56,623	82,685	194,278	268,878	290,078	
delta-s-Weg 13. Unteretappe kumuliert [m]	5,204	17,199	25,145	37,140	45,086	57,081	85,842	200,215	270,940	290,536	
delta-s-Weg 14. Unteretappe kumuliert [m]	5,710	17,641	25,651	37,582	45,592	57,523	89,191	206,028	272,928	290,978	
delta-s-Weg 15. Unteretappe kumuliert [m]	6,230	18,066	26,171	38,007	46,112	57,948	92,733	211,715	274,840	291,403	
delta-s-Weg 16. Unteretappe kumuliert [m]	6,766	18,474	26,707	38,415	46,648	58,356	96,467	217,278	276,678	291,811	
delta-s-Weg 17. Unteretappe kumuliert [m]	7,316	18,866	27,257	38,807	47,198	58,748	100,393	222,715	278,440	292,203	
delta-s-Weg 18. Unteretappe kumuliert [m]	7,882	19,241	27,823	39,182	47,764	59,123	104,513	228,028	280,128	292,578	
delta-s-Weg 19. Unteretappe kumuliert [m]	8,463	19,599	28,404	39,540	48,345	59,481	108,824	233,215	281,740	292,936	
delta-s-Weg 20. Unteretappe kumuliert [m]Ende	9,941	19,941	29,882	39,882	49,823	59,823	113,278	238,278	283,278	293,278	

Variante 5		Fahrzeug 1									
delta-t-Zeit pro Unteretappe [s]	0,00	0,0379	0,0648	0,1200	0,0927	0,2520	0,0722	0,0311	0,3333	0,0667	0,0667
delta-t-Zeit 00. Unteretappe kumuliert [s]Beginn	0,0000	0,8693	2,1650	4,5645	6,4179	11,4575	12,9786	13,7202	20,3869	21,7202	
delta-t-Zeit 01. Unteretappe kumuliert [s]	0,0379	0,9341	2,2850	4,6572	6,6699	11,5296	13,0097	14,0536	20,4536	21,7869	
delta-t-Zeit 02. Unteretappe kumuliert [s]	0,0757	0,9989	2,4050	4,7499	6,9218	11,6018	13,0408	14,3869	20,5202	21,8536	
delta-t-Zeit 03. Unteretappe kumuliert [s]	0,1136	1,0636	2,5250	4,8425	7,1738	11,6740	13,0720	14,7202	20,5869	21,9202	
delta-t-Zeit 04. Unteretappe kumuliert [s]	0,1514	1,1284	2,6449	4,9352	7,4258	11,7461	13,1031	15,0536	20,6536	21,9869	
delta-t-Zeit 05. Unteretappe kumuliert [s]	0,1893	1,1932	2,7649	5,0279	7,6778	11,8183	13,1343	15,3869	20,7202	22,0536	
delta-t-Zeit 06. Unteretappe kumuliert [s]	0,2271	1,2580	2,8849	5,1205	7,9298	11,8905	13,1654	15,7202	20,7869	22,1202	
delta-t-Zeit 07. Unteretappe kumuliert [s]	0,2650	1,3228	3,0049	5,2132	8,1817	11,9626	13,1965	16,0536	20,8536	22,1869	
delta-t-Zeit 08. Unteretappe kumuliert [s]	0,3029	1,3876	3,1248	5,3059	8,4337	12,0348	13,2277	16,3869	20,9202	22,2536	
delta-t-Zeit 09. Unteretappe kumuliert [s]	0,3407	1,4524	3,2448	5,3985	8,6857	12,1069	13,2588	16,7202	20,9869	22,3202	
delta-t-Zeit 10. Unteretappe kumuliert [s]	0,3786	1,5172	3,3648	5,4912	8,9377	12,1791	13,2900	17,0536	21,0536	22,3869	
delta-t-Zeit 11. Unteretappe kumuliert [s]	0,4164	1,5819	3,4848	5,5839	9,1897	12,2513	13,3211	17,3869	21,1202	22,4536	
delta-t-Zeit 12. Unteretappe kumuliert [s]	0,4543	1,6467	3,6047	5,6765	9,4416	12,3234	13,3522	17,7202	21,1869	22,5202	
delta-t-Zeit 13. Unteretappe kumuliert [s]	0,4921	1,7115	3,7247	5,7692	9,6936	12,3956	13,3834	18,0536	21,2536	22,5869	
delta-t-Zeit 14. Unteretappe kumuliert [s]	0,5300	1,7763	3,8447	5,8619	9,9456	12,4678	13,4145	18,3869	21,3202	22,6536	
delta-t-Zeit 15. Unteretappe kumuliert [s]	0,5679	1,8411	3,9647	5,9545	10,1976	12,5399	13,4457	18,7202	21,3869	22,7202	
delta-t-Zeit 16. Unteretappe kumuliert [s]	0,6057	1,9059	4,0846	6,0472	10,4496	12,6121	13,4768	19,0536	21,4536	22,7869	
delta-t-Zeit 17. Unteretappe kumuliert [s]	0,6436	1,9707	4,2046	6,1399	10,7015	12,6842	13,5079	19,3869	21,5202	22,8536	
delta-t-Zeit 18. Unteretappe kumuliert [s]	0,6814	2,0355	4,3246	6,2325	10,9535	12,7564	13,5391	19,7202	21,5869	22,9202	
delta-t-Zeit 19. Unteretappe kumuliert [s]	0,7193	2,1002	4,4446	6,3252	11,2055	12,8286	13,5702	20,0536	21,6536	22,9869	
delta-t-Zeit 20. Unteretappe kumuliert [s]Ende	0,8693	2,1650	4,5645	6,4179	11,4575	12,9786	13,7202	20,3869	21,7202	23,0536	
delta-s-Weg 00. Unteretappe kumuliert [m]Beginn	0,000	12,263	33,863	73,863	102,182	172,182	202,182	222,744	389,411	409,411	
delta-s-Weg 01. Unteretappe kumuliert [m]	0,426	13,343	35,863	75,402	105,682	173,205	202,964	232,661	390,728	410,069	
delta-s-Weg 02. Unteretappe kumuliert [m]	0,861	14,423	37,863	76,927	109,182	174,267	203,754	242,411	392,011	410,711	
delta-s-Weg 03. Unteretappe kumuliert [m]	1,307	15,503	39,863	78,439	112,682	175,370	204,550	251,994	393,261	411,336	
delta-s-Weg 04. Unteretappe kumuliert [m]	1,763	16,583	41,863	79,939	116,182	176,513	205,354	261,411	394,478	411,944	
delta-s-Weg 05. Unteretappe kumuliert [m]	2,228	17,663	43,863	81,426	119,682	177,696	206,166	270,661	395,661	412,536	
delta-s-Weg 06. Unteretappe kumuliert [m]	2,704	18,743	45,863	82,900	123,182	178,919	206,984	279,744	396,811	413,111	
delta-s-Weg 07. Unteretappe kumuliert [m]	3,190	19,823	47,863	84,361	126,682	180,182	207,810	288,661	397,928	413,669	
delta-s-Weg 08. Unteretappe kumuliert [m]	3,686	20,903	49,863	85,809	130,182	181,485	208,643	297,411	399,011	414,211	
delta-s-Weg 09. Unteretappe kumuliert [m]	4,192	21,983	51,863	87,244	133,682	182,829	209,483	305,994	400,061	414,736	
delta-s-Weg 10. Unteretappe kumuliert [m]	4,708	23,063	53,863	88,667	137,182	184,213	210,331	314,411	401,078	415,244	
delta-s-Weg 11. Unteretappe kumuliert [m]	5,233	24,143	55,863	90,076	140,682	185,637	211,186	322,661	402,061	415,736	
delta-s-Weg 12. Unteretappe kumuliert [m]	5,769	25,223	57,863	91,473	144,182	187,101	212,048	330,744	403,011	416,211	
delta-s-Weg 13. Unteretappe kumuliert [m]	6,315	26,303	59,863	92,857	147,682	188,605	212,917	338,661	403,928	416,669	
delta-s-Weg 14. Unteretappe kumuliert [m]	6,871	27,383	61,863	94,227	151,182	190,149	213,794	346,411	404,811	417,111	
delta-s-Weg 15. Unteretappe kumuliert [m]	7,438	28,463	63,863	95,585	154,682	191,733	214,678	353,994	405,661	417,536	
delta-s-Weg 16. Unteretappe kumuliert [m]	8,014	29,543	65,863	96,931	158,182	193,358	215,569	361,411	406,478	417,944	
delta-s-Weg 17. Unteretappe kumuliert [m]	8,600	30,623	67,863	98,263	161,682	195,023	216,468	368,661	407,261	418,336	
delta-s-Weg 18. Unteretappe kumuliert [m]	9,196	31,703	69,863	99,582	165,182	196,728	217,373	375,744	408,011	418,711	
delta-s-Weg 19. Unteretappe kumuliert [m]	9,802	32,783	71,863	100,889	168,682	198,473	218,287	382,661	408,728	419,069	
delta-s-Weg 20. Unteretappe kumuliert [m]Ende	12,263	33,863	73,863	102,182	172,182	202,182	222,744	389,411	409,411	419,411	

Variante 1		Fahrzeug 2									
delta-t-Zeit pro Unteretappe [s]	0,00	0,0595	0,0667	0,0595	0,0667	0,0595	0,0667	0,0595	0,1500	0,1500	0,1500
delta-t-Zeit 00. Unteretappe kumuliert [s]Beginn	0,0000	-1,2800	-2,6133	-3,8933	-5,2267	-6,5067	-7,8400	-9,1200	-12,1200	-15,1200	
delta-t-Zeit 01. Unteretappe kumuliert [s]	-0,0595	-1,3467	-2,6728	-3,9600	-5,2861	-6,5733	-7,8995	-9,2700	-12,2700	-15,2700	
delta-t-Zeit 02. Unteretappe kumuliert [s]	-0,1189	-1,4133	-2,7323	-4,0267	-5,3456	-6,6400	-7,9589	-9,4200	-12,4200	-15,4200	
delta-t-Zeit 03. Unteretappe kumuliert [s]	-0,1784	-1,4800	-2,7918	-4,0933	-5,4051	-6,7067	-8,0184	-9,5700	-12,5700	-15,5700	
delta-t-Zeit 04. Unteretappe kumuliert [s]	-0,2379	-1,5467	-2,8512	-4,1600	-5,4646	-6,7733	-8,0779	-9,7200	-12,7200	-15,7200	
delta-t-Zeit 05. Unteretappe kumuliert [s]	-0,2974	-1,6133	-2,9107	-4,2267	-5,5240	-6,8400	-8,1374	-9,8700	-12,8700	-15,8700	
delta-t-Zeit 06. Unteretappe kumuliert [s]	-0,3568	-1,6800	-2,9702	-4,2933	-5,5835	-6,9067	-8,1968	-10,0200	-13,0200	-16,0200	
delta-t-Zeit 07. Unteretappe kumuliert [s]	-0,4163	-1,7467	-3,0296	-4,3600	-5,6430	-6,9733	-8,2563	-10,1700	-13,1700	-16,1700	
delta-t-Zeit 08. Unteretappe kumuliert [s]	-0,4758	-1,8133	-3,0891	-4,4267	-5,7025	-7,0400	-8,3158	-10,3200	-13,3200	-16,3200	
delta-t-Zeit 09. Unteretappe kumuliert [s]	-0,5353	-1,8800	-3,1486	-4,4933	-5,7619	-7,1067	-8,3753	-10,4700	-13,4700	-16,4700	
delta-t-Zeit 10. Unteretappe kumuliert [s]	-0,5947	-1,9467	-3,2081	-4,5600	-5,8214	-7,1733	-8,4347	-10,6200	-13,6200	-16,6200	
delta-t-Zeit 11. Unteretappe kumuliert [s]	-0,6542	-2,0133	-3,2675	-4,6267	-5,8809	-7,2400	-8,4942	-10,7700	-13,7700	-16,7700	
delta-t-Zeit 12. Unteretappe kumuliert [s]	-0,7137	-2,0800	-3,3270	-4,6933	-5,9404	-7,3067	-8,5537	-10,9200	-13,9200	-16,9200	
delta-t-Zeit 13. Unteretappe kumuliert [s]	-0,7732	-2,1467	-3,3865	-4,7600	-5,9998	-7,3733	-8,6132	-11,0700	-14,0700	-17,0700	
delta-t-Zeit 14. Unteretappe kumuliert [s]	-0,8326	-2,2133	-3,4460	-4,8267	-6,0593	-7,4400	-8,6726	-11,2200	-14,2200	-17,2200	
delta-t-Zeit 15. Unteretappe kumuliert [s]	-0,8921	-2,2800	-3,5054	-4,8933	-6,1188	-7,5067	-8,7321	-11,3700	-14,3700	-17,3700	
delta-t-Zeit 16. Unteretappe kumuliert [s]	-0,9516	-2,3467	-3,5649	-4,9600	-6,1782	-7,5733	-8,7916	-11,5200	-14,5200	-17,5200	
delta-t-Zeit 17. Unteretappe kumuliert [s]	-1,0111	-2,4133	-3,6244	-5,0267	-6,2377	-7,6400	-8,8511	-11,6700	-14,6700	-17,6700	
delta-t-Zeit 18. Unteretappe kumuliert [s]	-1,0705	-2,4800	-3,6839	-5,0933	-6,2972	-7,7067	-8,9105	-11,8200	-14,8200	-17,8200	
delta-t-Zeit 19. Unteretappe kumuliert [s]	-1,1300	-2,5467	-3,7433	-5,1600	-6,3567	-7,7733	-8,9700	-11,9700	-14,9700	-17,9700	
delta-t-Zeit 20. Unteretappe kumuliert [s]Ende	-1,2800	-2,6133	-3,8933	-5,2267	-6,5067	-7,8400	-9,1200	-12,1200	-15,1200	-18,1200	
delta-s-Weg 00. Unteretappe kumuliert [m]Beginn	0,000	9,790	19,818	29,634	39,690	49,533	59,617	69,487	99,737	120,988	
delta-s-Weg 01. Unteretappe kumuliert [m]	0,305	10,450	20,124	30,296	39,997	50,196	59,925	71,000	101,227	121,600	
delta-s-Weg 02. Unteretappe kumuliert [m]	0,624	11,093	20,444	30,940	40,319	50,842	60,249	72,512	102,673	122,213	
delta-s-Weg 03. Unteretappe kumuliert [m]	0,958	11,719	20,780	31,568	40,656	51,471	60,587	74,025	104,073	122,826	
delta-s-Weg 04. Unteretappe kumuliert [m]	1,307	12,329	21,130	32,179	41,007	52,083	60,939	75,537	105,428	123,438	
delta-s-Weg 05. Unteretappe kumuliert [m]	1,671	12,922	21,495	32,773	41,374	52,679	61,307	77,050	106,738	124,051	
delta-s-Weg 06. Unteretappe kumuliert [m]	2,049	13,498	21,875	33,351	41,754	53,258	61,689	78,562	108,003	124,663	
delta-s-Weg 07. Unteretappe kumuliert [m]	2,443	14,058	22,269	33,912	42,150	53,821	62,086	80,075	109,223	125,276	
delta-s-Weg 08. Unteretappe kumuliert [m]	2,851	14,601	22,678	34,457	42,560	54,367	62,497	81,587	110,398	125,888	
delta-s-Weg 09. Unteretappe kumuliert [m]	3,273	15,127	23,102	34,984	42,986	54,896	62,924	83,100	111,528	126,501	
delta-s-Weg 10. Unteretappe kumuliert [m]	3,711	15,637	23,541	35,496	43,425	55,408	63,365	84,612	112,613	127,113	
delta-s-Weg 11. Unteretappe kumuliert [m]	4,163	16,130	23,994	35,990	43,880	55,904	63,821	86,125	113,653	127,726	
delta-s-Weg 12. Unteretappe kumuliert [m]	4,630	16,607	24,462	36,468	44,349	56,384	64,291	87,637	114,648	128,338	
delta-s-Weg 13. Unteretappe kumuliert [m]	5,111	17,066	24,945	36,929	44,833	56,846	64,776	89,150	115,598	128,951	
delta-s-Weg 14. Unteretappe kumuliert [m]	5,607	17,509	25,443	37,373	45,332	57,292	65,277	90,662	116,503	129,563	
delta-s-Weg 15. Unteretappe kumuliert [m]	6,119	17,936	25,955	37,801	45,846	57,721	65,791	92,175	117,363	130,176	
delta-s-Weg 16. Unteretappe kumuliert [m]	6,644	18,346	26,482	38,212	46,374	58,134	66,321	93,687	118,178	130,788	
delta-s-Weg 17. Unteretappe kumuliert [m]	7,185	18,739	27,024	38,607	46,917	58,529	66,865	95,200	118,948	131,401	
delta-s-Weg 18. Unteretappe kumuliert [m]	7,740	19,115	27,580	38,984	47,475	58,909	67,424	96,712	119,673	132,013	
delta-s-Weg 19. Unteretappe kumuliert [m]	8,310	19,475	28,152	39,346	48,047	59,271	67,998	98,225	120,353	132,626	
delta-s-Weg 20. Unteretappe kumuliert [m]Ende	9,790	19,818	29,634	39,690	49,533	59,617	69,487	99,737	120,988	133,238	

Variante 2	Fahrzeug 2										
delta-t-Zeit pro Unteretappe [s]	0,00	0,0609	0,0667	0,0609	0,0667	0,6000	0,1986	0,2000	0,0933	0,0667	0,0609
delta-t-Zeit 00. Unteretappe kumuliert [s]Beginn	0,0000	-1,3079	-2,6412	-3,9490	-5,2824	-17,2824	-21,2059	-25,2059	-27,1280	-28,4614	
delta-t-Zeit 01. Unteretappe kumuliert [s]	-0,0609	-1,3745	-2,7021	-4,0157	-5,8824	-17,4810	-21,4059	-25,2992	-27,1947	-28,5223	
delta-t-Zeit 02. Unteretappe kumuliert [s]	-0,1219	-1,4412	-2,7631	-4,0824	-6,4824	-17,6796	-21,6059	-25,3925	-27,2614	-28,5832	
delta-t-Zeit 03. Unteretappe kumuliert [s]	-0,1828	-1,5079	-2,8240	-4,1490	-7,0824	-17,8782	-21,8059	-25,4857	-27,3280	-28,6442	
delta-t-Zeit 04. Unteretappe kumuliert [s]	-0,2438	-1,5745	-2,8849	-4,2157	-7,6824	-18,0768	-22,0059	-25,5790	-27,3947	-28,7051	
delta-t-Zeit 05. Unteretappe kumuliert [s]	-0,3047	-1,6412	-2,9459	-4,2824	-8,2824	-18,2754	-22,2059	-25,6723	-27,4614	-28,7661	
delta-t-Zeit 06. Unteretappe kumuliert [s]	-0,3656	-1,7079	-3,0068	-4,3490	-8,8824	-18,4740	-22,4059	-25,7655	-27,5280	-28,8270	
delta-t-Zeit 07. Unteretappe kumuliert [s]	-0,4266	-1,7745	-3,0678	-4,4157	-9,4824	-18,6726	-22,6059	-25,8588	-27,5947	-28,8879	
delta-t-Zeit 08. Unteretappe kumuliert [s]	-0,4875	-1,8412	-3,1287	-4,4824	-10,0824	-18,8712	-22,8059	-25,9521	-27,6614	-28,9489	
delta-t-Zeit 09. Unteretappe kumuliert [s]	-0,5485	-1,9079	-3,1896	-4,5490	-10,6824	-19,0699	-23,0059	-26,0454	-27,7280	-29,0098	
delta-t-Zeit 10. Unteretappe kumuliert [s]	-0,6094	-1,9745	-3,2506	-4,6157	-11,2824	-19,2685	-23,2059	-26,1386	-27,7947	-29,0708	
delta-t-Zeit 11. Unteretappe kumuliert [s]	-0,6703	-2,0412	-3,3115	-4,6824	-11,8824	-19,4671	-23,4059	-26,2319	-27,8614	-29,1317	
delta-t-Zeit 12. Unteretappe kumuliert [s]	-0,7313	-2,1079	-3,3725	-4,7490	-12,4824	-19,6657	-23,6059	-26,3252	-27,9280	-29,1926	
delta-t-Zeit 13. Unteretappe kumuliert [s]	-0,7922	-2,1745	-3,4334	-4,8157	-13,0824	-19,8643	-23,8059	-26,4184	-27,9947	-29,2536	
delta-t-Zeit 14. Unteretappe kumuliert [s]	-0,8532	-2,2412	-3,4943	-4,8824	-13,6824	-20,0629	-24,0059	-26,5117	-28,0614	-29,3145	
delta-t-Zeit 15. Unteretappe kumuliert [s]	-0,9141	-2,3079	-3,5553	-4,9490	-14,2824	-20,2615	-24,2059	-26,6050	-28,1280	-29,3755	
delta-t-Zeit 16. Unteretappe kumuliert [s]	-0,9750	-2,3745	-3,6162	-5,0157	-14,8824	-20,4601	-24,4059	-26,6982	-28,1947	-29,4364	
delta-t-Zeit 17. Unteretappe kumuliert [s]	-1,0360	-2,4412	-3,6772	-5,0824	-15,4824	-20,6587	-24,6059	-26,7915	-28,2614	-29,4973	
delta-t-Zeit 18. Unteretappe kumuliert [s]	-1,0969	-2,5079	-3,7381	-5,1490	-16,0824	-20,8573	-24,8059	-26,8848	-28,3280	-29,5583	
delta-t-Zeit 19. Unteretappe kumuliert [s]	-1,1579	-2,5745	-3,7990	-5,2157	-16,6824	-21,0559	-25,0059	-26,9780	-28,3947	-29,6192	
delta-t-Zeit 20. Unteretappe kumuliert [s]Ende	-1,3079	-2,6412	-3,9490	-5,2824	-17,2824	-21,2059	-25,2059	-27,1280	-28,4614	-29,7692	
delta-s-Weg 00. Unteretappe kumuliert [m]Beginn	0,000	10,000	20,000	30,000	40,000	70,000	100,000	130,000	140,000	150,000	
delta-s-Weg 01. Unteretappe kumuliert [m]	0,312	10,658	20,312	30,658	42,925	70,077	102,925	130,024	140,658	150,312	
delta-s-Weg 02. Unteretappe kumuliert [m]	0,640	11,300	20,640	31,300	45,700	70,308	105,700	130,094	141,300	150,640	
delta-s-Weg 03. Unteretappe kumuliert [m]	0,982	11,925	20,982	31,925	48,325	70,692	108,325	130,213	141,925	150,982	
delta-s-Weg 04. Unteretappe kumuliert [m]	1,340	12,533	21,340	32,533	50,800	71,231	110,800	130,378	142,533	151,340	
delta-s-Weg 05. Unteretappe kumuliert [m]	1,713	13,125	21,713	33,125	53,125	71,923	113,125	130,591	143,125	151,713	
delta-s-Weg 06. Unteretappe kumuliert [m]	2,101	13,700	22,101	33,700	55,300	72,769	115,300	130,850	143,700	152,101	
delta-s-Weg 07. Unteretappe kumuliert [m]	2,504	14,258	22,504	34,258	57,325	73,769	117,325	131,158	144,258	152,504	
delta-s-Weg 08. Unteretappe kumuliert [m]	2,922	14,800	22,922	34,800	59,200	74,923	119,200	131,512	144,800	152,922	
delta-s-Weg 09. Unteretappe kumuliert [m]	3,355	15,325	23,355	35,325	60,925	76,231	120,925	131,914	145,325	153,355	
delta-s-Weg 10. Unteretappe kumuliert [m]	3,804	15,833	23,804	35,833	62,500	77,693	122,500	132,362	145,833	153,804	
delta-s-Weg 11. Unteretappe kumuliert [m]	4,267	16,325	24,267	36,325	63,925	79,308	123,925	132,858	146,325	154,267	
delta-s-Weg 12. Unteretappe kumuliert [m]	4,746	16,800	24,746	36,800	65,200	81,078	125,200	133,402	146,800	154,746	
delta-s-Weg 13. Unteretappe kumuliert [m]	5,240	17,258	25,240	37,258	66,325	83,001	126,325	133,992	147,258	155,240	
delta-s-Weg 14. Unteretappe kumuliert [m]	5,749	17,700	25,749	37,700	67,300	85,078	127,300	134,630	147,700	155,749	
delta-s-Weg 15. Unteretappe kumuliert [m]	6,273	18,125	26,273	38,125	68,125	87,309	128,125	135,315	148,125	156,273	
delta-s-Weg 16. Unteretappe kumuliert [m]	6,812	18,533	26,812	38,533	68,800	89,694	128,800	136,048	148,533	156,812	
delta-s-Weg 17. Unteretappe kumuliert [m]	7,367	18,925	27,367	38,925	69,325	92,232	129,325	136,827	148,925	157,367	
delta-s-Weg 18. Unteretappe kumuliert [m]	7,936	19,300	27,936	39,300	69,700	94,925	129,700	137,654	149,300	157,936	
delta-s-Weg 19. Unteretappe kumuliert [m]	8,521	19,658	28,521	39,658	69,925	97,771	129,925	138,528	149,658	158,521	
delta-s-Weg 20. Unteretappe kumuliert [m]Ende	10,000	20,000	30,000	40,000	70,000	100,000	130,000	140,000	150,000	160,000	

Variante 3		Fahrzeug 2									
delta-t-Zeit pro Unteretappe [s]	0,00	0,0592	0,0667	0,0592	0,0667	0,0592	0,0667	0,2154	0,4167	0,0592	0,0667
delta-t-Zeit 00. Unteretappe kumuliert [s]Beginn	0,0000	-1,2750	-2,6083	-3,8833	-5,2166	-6,4916	-7,8250	-12,0666	-20,4000	-21,6750	
delta-t-Zeit 01. Unteretappe kumuliert [s]	-0,0592	-1,3417	-2,6675	-3,9500	-5,2759	-6,5583	-8,0403	-12,4833	-20,4592	-21,7416	
delta-t-Zeit 02. Unteretappe kumuliert [s]	-0,1184	-1,4083	-2,7267	-4,0166	-5,3351	-6,6250	-8,2557	-12,9000	-20,5184	-21,8083	
delta-t-Zeit 03. Unteretappe kumuliert [s]	-0,1776	-1,4750	-2,7860	-4,0833	-5,3943	-6,6916	-8,4710	-13,3166	-20,5776	-21,8750	
delta-t-Zeit 04. Unteretappe kumuliert [s]	-0,2368	-1,5417	-2,8452	-4,1500	-5,4535	-6,7583	-8,6864	-13,7333	-20,6368	-21,9416	
delta-t-Zeit 05. Unteretappe kumuliert [s]	-0,2961	-1,6083	-2,9044	-4,2166	-5,5127	-6,8250	-8,9017	-14,1500	-20,6960	-22,0083	
delta-t-Zeit 06. Unteretappe kumuliert [s]	-0,3553	-1,6750	-2,9636	-4,2833	-5,5719	-6,8916	-9,1171	-14,5666	-20,7552	-22,0750	
delta-t-Zeit 07. Unteretappe kumuliert [s]	-0,4145	-1,7417	-3,0228	-4,3500	-5,6311	-6,9583	-9,3324	-14,9833	-20,8144	-22,1416	
delta-t-Zeit 08. Unteretappe kumuliert [s]	-0,4737	-1,8083	-3,0820	-4,4166	-5,6903	-7,0250	-9,5478	-15,4000	-20,8737	-22,2083	
delta-t-Zeit 09. Unteretappe kumuliert [s]	-0,5329	-1,8750	-3,1412	-4,4833	-5,7495	-7,0916	-9,7631	-15,8166	-20,9329	-22,2750	
delta-t-Zeit 10. Unteretappe kumuliert [s]	-0,5921	-1,9417	-3,2004	-4,5500	-5,8087	-7,1583	-9,9785	-16,2333	-20,9921	-22,3416	
delta-t-Zeit 11. Unteretappe kumuliert [s]	-0,6513	-2,0083	-3,2596	-4,6166	-5,8680	-7,2250	-10,1938	-16,6500	-21,0513	-22,4083	
delta-t-Zeit 12. Unteretappe kumuliert [s]	-0,7105	-2,0750	-3,3188	-4,6833	-5,9272	-7,2916	-10,4092	-17,0666	-21,1105	-22,4750	
delta-t-Zeit 13. Unteretappe kumuliert [s]	-0,7697	-2,1417	-3,3781	-4,7500	-5,9864	-7,3583	-10,6245	-17,4833	-21,1697	-22,5416	
delta-t-Zeit 14. Unteretappe kumuliert [s]	-0,8289	-2,2083	-3,4373	-4,8166	-6,0456	-7,4250	-10,8399	-17,9000	-21,2289	-22,6083	
delta-t-Zeit 15. Unteretappe kumuliert [s]	-0,8882	-2,2750	-3,4965	-4,8833	-6,1048	-7,4916	-11,0552	-18,3166	-21,2881	-22,6750	
delta-t-Zeit 16. Unteretappe kumuliert [s]	-0,9474	-2,3417	-3,5557	-4,9500	-6,1640	-7,5583	-11,2706	-18,7333	-21,3473	-22,7416	
delta-t-Zeit 17. Unteretappe kumuliert [s]	-1,0066	-2,4083	-3,6149	-5,0166	-6,2232	-7,6250	-11,4859	-19,1500	-21,4065	-22,8083	
delta-t-Zeit 18. Unteretappe kumuliert [s]	-1,0658	-2,4750	-3,6741	-5,0833	-6,2824	-7,6916	-11,7013	-19,5666	-21,4658	-22,8750	
delta-t-Zeit 19. Unteretappe kumuliert [s]	-1,1250	-2,5417	-3,7333	-5,1500	-6,3416	-7,7583	-11,9166	-19,9833	-21,5250	-22,9416	
delta-t-Zeit 20. Unteretappe kumuliert [s]Ende	-1,2750	-2,6083	-3,8833	-5,2166	-6,4916	-7,8250	-12,0666	-20,4000	-21,6750	-23,0083	
delta-s-Weg 00. Unteretappe kumuliert [m]Beginn	0,000	9,738	19,738	29,476	39,476	49,215	59,215	134,364	280,198	289,936	
delta-s-Weg 01. Unteretappe kumuliert [m]	0,303	10,397	20,042	30,135	39,780	49,873	60,431	146,604	280,501	290,594	
delta-s-Weg 02. Unteretappe kumuliert [m]	0,621	11,038	20,360	30,776	40,098	50,515	61,925	158,323	280,819	291,236	
delta-s-Weg 03. Unteretappe kumuliert [m]	0,954	11,663	20,692	31,401	40,430	51,140	63,697	169,521	281,152	291,861	
delta-s-Weg 04. Unteretappe kumuliert [m]	1,301	12,272	21,039	32,010	40,777	51,748	65,748	180,198	281,499	292,469	
delta-s-Weg 05. Unteretappe kumuliert [m]	1,663	12,863	21,401	32,601	41,139	52,340	68,077	190,354	281,861	293,061	
delta-s-Weg 06. Unteretappe kumuliert [m]	2,039	13,438	21,777	33,176	41,516	52,915	70,684	199,989	282,237	293,636	
delta-s-Weg 07. Unteretappe kumuliert [m]	2,430	13,997	22,168	33,735	41,907	53,473	73,569	209,104	282,628	294,194	
delta-s-Weg 08. Unteretappe kumuliert [m]	2,836	14,538	22,574	34,276	42,312	54,015	76,733	217,698	283,034	294,736	
delta-s-Weg 09. Unteretappe kumuliert [m]	3,256	15,063	22,994	34,801	42,732	54,540	80,175	225,771	283,454	295,261	
delta-s-Weg 10. Unteretappe kumuliert [m]	3,691	15,572	23,429	35,310	43,167	55,048	83,895	233,323	283,889	295,769	
delta-s-Weg 11. Unteretappe kumuliert [m]	4,140	16,063	23,879	35,801	43,617	55,540	87,893	240,354	284,338	296,261	
delta-s-Weg 12. Unteretappe kumuliert [m]	4,604	16,538	24,343	36,276	44,081	56,015	92,170	246,864	284,802	296,736	
delta-s-Weg 13. Unteretappe kumuliert [m]	5,083	16,997	24,821	36,735	44,559	56,473	96,725	252,854	285,281	297,194	
delta-s-Weg 14. Unteretappe kumuliert [m]	5,576	17,438	25,314	37,176	45,053	56,915	101,558	258,323	285,774	297,636	
delta-s-Weg 15. Unteretappe kumuliert [m]	6,084	17,863	25,822	37,601	45,561	57,340	106,670	263,271	286,282	298,061	
delta-s-Weg 16. Unteretappe kumuliert [m]	6,607	18,272	26,345	38,010	46,083	57,748	112,059	267,698	286,804	298,469	
delta-s-Weg 17. Unteretappe kumuliert [m]	7,144	18,663	26,882	38,401	46,620	58,140	117,727	271,604	287,341	298,861	
delta-s-Weg 18. Unteretappe kumuliert [m]	7,695	19,038	27,434	38,776	47,172	58,515	123,674	274,989	287,893	299,236	
delta-s-Weg 19. Unteretappe kumuliert [m]	8,262	19,397	28,000	39,135	47,738	58,873	129,898	277,854	288,459	299,594	
delta-s-Weg 20. Unteretappe kumuliert [m]Ende	9,738	19,738	29,476	39,476	49,215	59,215	134,364	280,198	289,936	299,936	

Variante 4		Fahrzeug 2									
delta-t-Zeit pro Unteretappe [s]	0,00	0,0605	0,0667	0,0605	0,0667	0,0605	0,0667	0,1500	0,2500	0,1500	0,0667
delta-t-Zeit 00. Unteretappe kumuliert [s]Beginn	0,0000	-1,3000	-2,6333	-3,9333	-5,2667	-6,5667	-7,9000	-10,9000	-15,9000	-18,9000	
delta-t-Zeit 01. Unteretappe kumuliert [s]	-0,0605	-1,3667	-2,6939	-4,0000	-5,3272	-6,6333	-8,0500	-11,1500	-16,0500	-18,9667	
delta-t-Zeit 02. Unteretappe kumuliert [s]	-0,1211	-1,4333	-2,7544	-4,0667	-5,3877	-6,7000	-8,2000	-11,4000	-16,2000	-19,0333	
delta-t-Zeit 03. Unteretappe kumuliert [s]	-0,1816	-1,5000	-2,8149	-4,1333	-5,4482	-6,7667	-8,3500	-11,6500	-16,3500	-19,1000	
delta-t-Zeit 04. Unteretappe kumuliert [s]	-0,2421	-1,5667	-2,8754	-4,2000	-5,5088	-6,8333	-8,5000	-11,9000	-16,5000	-19,1667	
delta-t-Zeit 05. Unteretappe kumuliert [s]	-0,3026	-1,6333	-2,9360	-4,2667	-5,5693	-6,9000	-8,6500	-12,1500	-16,6500	-19,2333	
delta-t-Zeit 06. Unteretappe kumuliert [s]	-0,3632	-1,7000	-2,9965	-4,3333	-5,6298	-6,9667	-8,8000	-12,4000	-16,8000	-19,3000	
delta-t-Zeit 07. Unteretappe kumuliert [s]	-0,4237	-1,7667	-3,0570	-4,4000	-5,6904	-7,0333	-8,9500	-12,6500	-16,9500	-19,3667	
delta-t-Zeit 08. Unteretappe kumuliert [s]	-0,4842	-1,8333	-3,1175	-4,4667	-5,7509	-7,1000	-9,1000	-12,9000	-17,1000	-19,4333	
delta-t-Zeit 09. Unteretappe kumuliert [s]	-0,5447	-1,9000	-3,1781	-4,5333	-5,8114	-7,1667	-9,2500	-13,1500	-17,2500	-19,5000	
delta-t-Zeit 10. Unteretappe kumuliert [s]	-0,6053	-1,9667	-3,2386	-4,6000	-5,8719	-7,2333	-9,4000	-13,4000	-17,4000	-19,5667	
delta-t-Zeit 11. Unteretappe kumuliert [s]	-0,6658	-2,0333	-3,2991	-4,6667	-5,9325	-7,3000	-9,5500	-13,6500	-17,5500	-19,6333	
delta-t-Zeit 12. Unteretappe kumuliert [s]	-0,7263	-2,1000	-3,3596	-4,7333	-5,9930	-7,3667	-9,7000	-13,9000	-17,7000	-19,7000	
delta-t-Zeit 13. Unteretappe kumuliert [s]	-0,7868	-2,1667	-3,4202	-4,8000	-6,0535	-7,4333	-9,8500	-14,1500	-17,8500	-19,7667	
delta-t-Zeit 14. Unteretappe kumuliert [s]	-0,8474	-2,2333	-3,4807	-4,8667	-6,1140	-7,5000	-10,0000	-14,4000	-18,0000	-19,8333	
delta-t-Zeit 15. Unteretappe kumuliert [s]	-0,9079	-2,3000	-3,5412	-4,9333	-6,1746	-7,5667	-10,1500	-14,6500	-18,1500	-19,9000	
delta-t-Zeit 16. Unteretappe kumuliert [s]	-0,9684	-2,3667	-3,6018	-5,0000	-6,2351	-7,6333	-10,3000	-14,9000	-18,3000	-19,9667	
delta-t-Zeit 17. Unteretappe kumuliert [s]	-1,0289	-2,4333	-3,6623	-5,0667	-6,2956	-7,7000	-10,4500	-15,1500	-18,4500	-20,0333	
delta-t-Zeit 18. Unteretappe kumuliert [s]	-1,0895	-2,5000	-3,7228	-5,1333	-6,3561	-7,7667	-10,6000	-15,4000	-18,6000	-20,1000	
delta-t-Zeit 19. Unteretappe kumuliert [s]	-1,1500	-2,5667	-3,7833	-5,2000	-6,4167	-7,8333	-10,7500	-15,6500	-18,7500	-20,1667	
delta-t-Zeit 20. Unteretappe kumuliert [s]Ende	-1,3000	-2,6333	-3,9333	-5,2667	-6,5667	-7,9000	-10,9000	-15,9000	-18,9000	-20,2333	
delta-s-Weg 00. Unteretappe kumuliert [m]Beginn	0,000	9,941	19,941	29,882	39,882	49,823	59,823	113,278	238,278	283,278	
delta-s-Weg 01. Unteretappe kumuliert [m]	0,310	10,599	20,251	30,540	40,192	50,481	60,669	120,715	241,240	283,936	
delta-s-Weg 02. Unteretappe kumuliert [m]	0,635	11,241	20,576	31,182	40,517	51,123	61,708	128,028	244,128	284,578	
delta-s-Weg 03. Unteretappe kumuliert [m]	0,976	11,866	20,917	31,807	40,858	51,748	62,940	135,215	246,940	285,203	
delta-s-Weg 04. Unteretappe kumuliert [m]	1,331	12,474	21,272	32,415	41,213	52,356	64,363	142,278	249,678	285,811	
delta-s-Weg 05. Unteretappe kumuliert [m]	1,701	13,066	21,642	33,007	41,583	52,948	65,980	149,215	252,340	286,403	
delta-s-Weg 06. Unteretappe kumuliert [m]	2,086	13,641	22,027	33,582	41,968	53,523	67,789	156,028	254,928	286,978	
delta-s-Weg 07. Unteretappe kumuliert [m]	2,487	14,199	22,428	34,140	42,369	54,081	69,790	162,715	257,440	287,536	
delta-s-Weg 08. Unteretappe kumuliert [m]	2,902	14,741	22,843	34,682	42,784	54,623	71,984	169,278	259,878	288,078	
delta-s-Weg 09. Unteretappe kumuliert [m]	3,332	15,266	23,273	35,207	43,214	55,148	74,371	175,715	262,240	288,603	
delta-s-Weg 10. Unteretappe kumuliert [m]	3,778	15,774	23,719	35,715	43,660	55,656	76,950	182,028	264,528	289,111	
delta-s-Weg 11. Unteretappe kumuliert [m]	4,238	16,266	24,179	36,207	44,120	56,148	79,721	188,215	266,740	289,603	
delta-s-Weg 12. Unteretappe kumuliert [m]	4,714	16,741	24,655	36,682	44,596	56,623	82,685	194,278	268,878	290,078	
delta-s-Weg 13. Unteretappe kumuliert [m]	5,204	17,199	25,145	37,140	45,086	57,081	85,842	200,215	270,940	290,536	
delta-s-Weg 14. Unteretappe kumuliert [m]	5,710	17,641	25,651	37,582	45,592	57,523	89,191	206,028	272,928	290,978	
delta-s-Weg 15. Unteretappe kumuliert [m]	6,230	18,066	26,171	38,007	46,112	57,948	92,733	211,715	274,840	291,403	
delta-s-Weg 16. Unteretappe kumuliert [m]	6,766	18,474	26,707	38,415	46,648	58,356	96,467	217,278	276,678	291,811	
delta-s-Weg 17. Unteretappe kumuliert [m]	7,316	18,866	27,257	38,807	47,198	58,748	100,393	222,715	278,440	292,203	
delta-s-Weg 18. Unteretappe kumuliert [m]	7,882	19,241	27,823	39,182	47,764	59,123	104,513	228,028	280,128	292,578	
delta-s-Weg 19. Unteretappe kumuliert [m]	8,463	19,599	28,404	39,540	48,345	59,481	108,824	233,215	281,740	292,936	
delta-s-Weg 20. Unteretappe kumuliert [m]Ende	9,941	19,941	29,882	39,882	49,823	59,823	113,278	238,278	283,278	293,278	

Variante 5		Fahrzeug 2									
delta-t-Zeit pro Unteretappe [s]	0,00	0,0379	0,0648	0,1200	0,0927	0,2520	0,0722	0,0311	0,3333	0,0667	0,0667
delta-t-Zeit 00. Unteretappe kumuliert [s]Beginn	0,0000	-0,8693	-2,1650	-4,5645	-6,4179	-11,4575	-12,9786	-13,7202	-20,3869	-21,7202	
delta-t-Zeit 01. Unteretappe kumuliert [s]	-0,0379	-0,9341	-2,2850	-4,6572	-6,6699	-11,5296	-13,0097	-14,0536	-20,4536	-21,7869	
delta-t-Zeit 02. Unteretappe kumuliert [s]	-0,0757	-0,9989	-2,4050	-4,7499	-6,9218	-11,6018	-13,0408	-14,3869	-20,5202	-21,8536	
delta-t-Zeit 03. Unteretappe kumuliert [s]	-0,1136	-1,0636	-2,5250	-4,8425	-7,1738	-11,6740	-13,0720	-14,7202	-20,5869	-21,9202	
delta-t-Zeit 04. Unteretappe kumuliert [s]	-0,1514	-1,1284	-2,6449	-4,9352	-7,4258	-11,7461	-13,1031	-15,0536	-20,6536	-21,9869	
delta-t-Zeit 05. Unteretappe kumuliert [s]	-0,1893	-1,1932	-2,7649	-5,0279	-7,6778	-11,8183	-13,1343	-15,3869	-20,7202	-22,0536	
delta-t-Zeit 06. Unteretappe kumuliert [s]	-0,2271	-1,2580	-2,8849	-5,1205	-7,9298	-11,8905	-13,1654	-15,7202	-20,7869	-22,1202	
delta-t-Zeit 07. Unteretappe kumuliert [s]	-0,2650	-1,3228	-3,0049	-5,2132	-8,1817	-11,9626	-13,1965	-16,0536	-20,8536	-22,1869	
delta-t-Zeit 08. Unteretappe kumuliert [s]	-0,3029	-1,3876	-3,1248	-5,3059	-8,4337	-12,0348	-13,2277	-16,3869	-20,9202	-22,2536	
delta-t-Zeit 09. Unteretappe kumuliert [s]	-0,3407	-1,4524	-3,2448	-5,3985	-8,6857	-12,1069	-13,2588	-16,7202	-20,9869	-22,3202	
delta-t-Zeit 10. Unteretappe kumuliert [s]	-0,3786	-1,5172	-3,3648	-5,4912	-8,9377	-12,1791	-13,2900	-17,0536	-21,0536	-22,3869	
delta-t-Zeit 11. Unteretappe kumuliert [s]	-0,4164	-1,5819	-3,4848	-5,5839	-9,1897	-12,2513	-13,3211	-17,3869	-21,1202	-22,4536	
delta-t-Zeit 12. Unteretappe kumuliert [s]	-0,4543	-1,6467	-3,6047	-5,6765	-9,4416	-12,3234	-13,3522	-17,7202	-21,1869	-22,5202	
delta-t-Zeit 13. Unteretappe kumuliert [s]	-0,4921	-1,7115	-3,7247	-5,7692	-9,6936	-12,3956	-13,3834	-18,0536	-21,2536	-22,5869	
delta-t-Zeit 14. Unteretappe kumuliert [s]	-0,5300	-1,7763	-3,8447	-5,8619	-9,9456	-12,4678	-13,4145	-18,3869	-21,3202	-22,6536	
delta-t-Zeit 15. Unteretappe kumuliert [s]	-0,5679	-1,8411	-3,9647	-5,9545	-10,1976	-12,5399	-13,4457	-18,7202	-21,3869	-22,7202	
delta-t-Zeit 16. Unteretappe kumuliert [s]	-0,6057	-1,9059	-4,0846	-6,0472	-10,4496	-12,6121	-13,4768	-19,0536	-21,4536	-22,7869	
delta-t-Zeit 17. Unteretappe kumuliert [s]	-0,6436	-1,9707	-4,2046	-6,1399	-10,7015	-12,6842	-13,5079	-19,3869	-21,5202	-22,8536	
delta-t-Zeit 18. Unteretappe kumuliert [s]	-0,6814	-2,0355	-4,3246	-6,2325	-10,9535	-12,7564	-13,5391	-19,7202	-21,5869	-22,9202	
delta-t-Zeit 19. Unteretappe kumuliert [s]	-0,7193	-2,1002	-4,4446	-6,3252	-11,2055	-12,8286	-13,5702	-20,0536	-21,6536	-22,9869	
delta-t-Zeit 20. Unteretappe kumuliert [s]Ende	-0,8693	-2,1650	-4,5645	-6,4179	-11,4575	-12,9786	-13,7202	-20,3869	-21,7202	-23,0536	
delta-s-Weg 00. Unteretappe kumuliert [m]Beginn	0,000	12,263	33,863	73,863	102,182	172,182	202,182	222,744	389,411	409,411	
delta-s-Weg 01. Unteretappe kumuliert [m]	0,426	13,343	35,863	75,402	105,682	173,205	202,964	232,661	390,728	410,069	
delta-s-Weg 02. Unteretappe kumuliert [m]	0,861	14,423	37,863	76,927	109,182	174,267	203,754	242,411	392,011	410,711	
delta-s-Weg 03. Unteretappe kumuliert [m]	1,307	15,503	39,863	78,439	112,682	175,370	204,550	251,994	393,261	411,336	
delta-s-Weg 04. Unteretappe kumuliert [m]	1,763	16,583	41,863	79,939	116,182	176,513	205,354	261,411	394,478	411,944	
delta-s-Weg 05. Unteretappe kumuliert [m]	2,228	17,663	43,863	81,426	119,682	177,696	206,166	270,661	395,661	412,536	
delta-s-Weg 06. Unteretappe kumuliert [m]	2,704	18,743	45,863	82,900	123,182	178,919	206,984	279,744	396,811	413,111	
delta-s-Weg 07. Unteretappe kumuliert [m]	3,190	19,823	47,863	84,361	126,682	180,182	207,810	288,661	397,928	413,669	
delta-s-Weg 08. Unteretappe kumuliert [m]	3,686	20,903	49,863	85,809	130,182	181,485	208,643	297,411	399,011	414,211	
delta-s-Weg 09. Unteretappe kumuliert [m]	4,192	21,983	51,863	87,244	133,682	182,829	209,483	305,994	400,061	414,736	
delta-s-Weg 10. Unteretappe kumuliert [m]	4,708	23,063	53,863	88,667	137,182	184,213	210,331	314,411	401,078	415,244	
delta-s-Weg 11. Unteretappe kumuliert [m]	5,233	24,143	55,863	90,076	140,682	185,637	211,186	322,661	402,061	415,736	
delta-s-Weg 12. Unteretappe kumuliert [m]	5,769	25,223	57,863	91,473	144,182	187,101	212,048	330,744	403,011	416,211	
delta-s-Weg 13. Unteretappe kumuliert [m]	6,315	26,303	59,863	92,857	147,682	188,605	212,917	338,661	403,928	416,669	
delta-s-Weg 14. Unteretappe kumuliert [m]	6,871	27,383	61,863	94,227	151,182	190,149	213,794	346,411	404,811	417,111	
delta-s-Weg 15. Unteretappe kumuliert [m]	7,438	28,463	63,863	95,585	154,682	191,733	214,678	353,994	405,661	417,536	
delta-s-Weg 16. Unteretappe kumuliert [m]	8,014	29,543	65,863	96,931	158,182	193,358	215,569	361,411	406,478	417,944	
delta-s-Weg 17. Unteretappe kumuliert [m]	8,600	30,623	67,863	98,263	161,682	195,023	216,468	368,661	407,261	418,336	
delta-s-Weg 18. Unteretappe kumuliert [m]	9,196	31,703	69,863	99,582	165,182	196,728	217,373	375,744	408,011	418,711	
delta-s-Weg 19. Unteretappe kumuliert [m]	9,802	32,783	71,863	100,889	168,682	198,473	218,287	382,661	408,728	419,069	
delta-s-Weg 20. Unteretappe kumuliert [m]Ende	12,263	33,863	73,863	102,182	172,182	202,182	222,744	389,411	409,411	419,411	

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P1 Vermeidbarkeitsberechnungen

Ing. Wolfgang Huber 02.04.05 SYSTEM ING. WOLFGANG HUBER
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Kfz: **Muster G**

VO: 16,67 [m/s], Geschw.
 S1: 9,06 [m], Bremsweg
 Sg1: 30,68 [m], Reaktionsweg.

1 m/s = 3,6 km/h

(Tabelle für Unsterblicher) a1: [m/s²] Verzögerung [m/s²]

tr: [s], Reak.
 ta: [s], Bremsanspr. t-ges1: [s], Reaktionszeit
 ts: [s], Bremseschwell. t1: [s], Bremszeit
 Vk: [m/s], Kollision tr: [s], Vorbremszeit
 V1: [m/s] s01: [m], Vorbremsweg

delta-t: [s]
 V-VZ2: [m/s]
 V-K2-th: [m/s]
 t-ges2: [s]
 s1: [m]

a3: [m/s²]
 V-VZ3: [m/s]
 V-K3-th: [m/s]
 t-ges2: [s]
 s1: [m]

P1 Vermeidbarkeitsberechnungen

Ing. Wolfgang Huber 02.04.05 SYSTEM ING. WOLFGANG HUBER
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delta-t0: [s]
 S-ges4: [m]
 t-ges0: [s]
 t-ges4: [s]
 V-K4-th: [m/s]
 s4: [m]
 t4: [s]

t-ges5: [s]
 v5: [m/s]
 V-K5-th: [m/s]
 s5: [m]
 t5: [s]
 a5: [m/s²]

a6: [m/s²]
 delta-t6: [s]
 V-VZ6: [m/s]
 V-K6-th: [m/s]
 t-ges6: [s]
 s6: [m]
 t6: [s]
 v6: [m/s]

berechnend großen Verzögerungswert eingegeben wird, ist die davorliegende Bremschwellphase mit a/2 . ts extra zu rechnen. Dies erfolgt bei diesen beiden Fahrzeugen in dieser													
werden, indem ab der gewünschten Rubrik jene Zeitetappe (delta-t-Zeit pro Etappe) eingetragen wird, welche erforderlich ist, um Zeitgleichheit zu haben.													
nt das Periodenende.													
-3,75	3,75	-3,75	3,75	-3,75	3,75	-3,75	3,75	-3,75	3,75	-3,75	3,75	-3,75	3,75
0,15	0,15	0,15	0,15	0,15	0,15	0,15	0,15	0,15	0,15	0,15	0,15	0,15	0,15
4,20	4,35	4,50	4,65	4,80	4,95	5,10	5,25	5,40	5,55	5,70	5,85	6,00	6,15
-0,563	0,563	-0,563	0,563	-0,563	0,563	-0,563	0,563	-0,563	0,563	-0,563	0,563	-0,563	0,563
3,000	3,563	3,000	3,563	3,000	3,563	3,000	3,563	3,000	3,563	3,000	3,563	3,000	3,563
0,49	0,49	0,49	0,49	0,49	0,49	0,49	0,49	0,49	0,49	0,49	0,49	0,49	0,49
17,94	18,43	18,92	19,41	19,91	20,40	20,89	21,38	21,88	22,37	22,86	23,35	23,84	24,34
nt das Periodenende.													
-3,75	3,75	-3,75	3,75	-3,75	3,75	-3,75	3,75	-3,75	3,75	-3,75	3,75	-20,00	3,75
0,15	0,15	0,15	0,15	0,15	0,15	0,15	0,15	0,15	0,15	0,15	0,15	1,00	0,15
-3,35	-3,50	-3,65	-3,80	-3,95	-4,10	-4,25	-4,40	-4,55	-4,70	-4,85	-5,00	-6,00	-6,15
-0,563	0,563	-0,563	0,563	-0,563	0,563	-0,563	0,563	-0,563	0,563	-0,563	0,563	-20,000	0,563
-13,548	-14,110	-13,548	-14,110	-13,548	-14,110	-13,548	-14,110	-13,548	-14,110	-13,548	-14,110	0,000	-0,563
-2,07	-2,07	-2,07	-2,07	-2,07	-2,07	-2,07	-2,07	-2,07	-2,07	-2,07	-2,07	-7,06	-0,04
-41,39	-43,46	-45,54	-47,61	-49,69	-51,76	-53,83	-55,91	-57,98	-60,06	-62,13	-64,21	-71,26	-71,30

rungswert eingegeben wird, ist die davorliegende Bremsschwellphase mit a/2*ts extra zu rechnen. Wenn sich a als a1 (als Verzögerung) ergibt (aus Herleitung durch Eingabe von 17" bzw "B174". Delta-t-Zeit pro Etappe [s] darf nicht < sein als "ts" - sonst Fehlberechnung. Wenn a1-Verzögerung: positiv ist, dann wird in der Zeile darunter "ts" berücksichtigt.															
iodenende (falls in der gleichen Zeile die Werte sind); bzw. in der gleichen Rubrik untereinander (falls in der gleichen Rubrik die Werte sind).															
ja	Ist noch ohne Funktion!														
8,000	-2,000	0,000	8,000	-2,000	0,000	8,000	-2,000	0,000	8,000	-2,000	0,000	4,000	-2,000		
3,00	10,00	3,00	3,00	15,00	3,00	3,00	10,00	3,00	3,00	10,00	3,00	5,00	10,00		
21,12	31,12	34,12	37,12	52,12	55,12	58,12	68,12	71,12	74,12	84,12	87,12	92,12	102,12	102,12	
23,400	-20,000	0,000	23,400	-30,000	0,000	23,400	-20,000	0,000	23,400	-20,000	0,000	19,700	-20,000	0,000	
27,483	7,483	7,483	30,883	0,883	0,883	24,283	4,283	4,283	27,683	7,683	7,683	27,383	7,383	7,383	
4,078	0,000	0,000	4,588	0,000	0,000	3,598	0,000	0,000	4,108	0,000	0,000	4,085	0,000	0,000	
48,21	174,83	22,45	58,41	238,25	2,65	38,61	142,83	12,85	48,81	176,83	23,05	88,39	173,83	0,00	
181,44	356,28	378,73	437,13	675,39	678,04	716,64	859,48	872,33	921,13	1097,97	1121,02	1209,41	1383,25	1383,25	
5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	10,000	5,000	10,000	5,000	10,000	5,000		
10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	10,000	5,000	10,000	5,000	10,000	5,000	
10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	30,00	10,00	10,00	10,00	10,00	10,00	10,00	
170,00	180,00	190,00	200,00	210,00	220,00	230,00	240,00	270,00	280,00	290,00	300,00	310,00	320,00	320,00	
-3,750	3,750	-3,750	3,750	-3,750	3,750	-3,750	3,750	0,000	-3,750	3,750	-3,750	3,750	-3,750	#DIV/0!	
-3,750	4,075	-3,750	4,075	-3,750	4,075	-3,750	4,075	0,000	-3,750	4,075	-3,750	4,075	-3,750	#DIV/0!	
0,000	1,479	0,000	1,479	0,000	1,479	0,000	1,479	0,000	0,000	1,479	0,000	1,479	0,000	#DIV/0!	
1,33	1,31	1,33	1,31	1,33	1,31	1,33	1,31	3,00	1,33	1,31	1,33	1,31	1,33	1,31	
31,10	32,41	33,74	35,05	36,38	37,69	39,03	40,33	43,33	44,67	45,98	47,31	48,62	49,95	49,95	
10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000		
5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	
4,167	-3,750	4,167	-3,750	4,167	-3,750	4,167	-3,750	4,167	-3,750	4,167	-3,750	4,167	-3,750		
1,477	0,000	1,477	0,000	1,477	0,000	1,477	0,000	1,477	0,000	1,477	0,000	1,477	0,000	0,000	
9,74	10,00	9,74	10,00	9,74	10,00	9,74	10,00	9,74	10,00	9,74	10,00	9,74	10,00	0,00	
309,67	319,67	329,41	339,41	349,15	359,15	368,89	378,89	388,63	398,63	408,37	418,37	428,10	438,10	438,10	
1,27	1,33	1,27	1,33	1,27	1,33	1,27	1,33	1,27	1,33	1,27	1,33	1,27	1,33	0,00	
24,28	25,62	26,89	28,22	29,50	30,83	32,11	33,44	34,72	36,05	37,32	38,66	39,93	41,27	41,27	

10,000	5,000	10,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	10,000	5,000	10,000	5,000	
5,000	10,000	5,000	10,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	10,000	5,000	10,000	
1,30	1,33	1,30	1,30	1,33	1,30	1,33	1,30	1,33	1,30	3,00	1,33	1,30	1,33	
21,53	22,87	24,17	25,47	26,80	28,10	29,43	30,73	32,07	33,37	36,37	37,70	39,00	40,33	40,33
3,846	-3,750	3,846	0,000	-3,750	3,846	-3,750	3,846	-3,750	3,846	0,000	-3,750	3,846	-3,750	#DIV/0!
4,102	-3,750	4,102	0,000	-3,750	4,102	-3,750	4,102	-3,750	4,102	0,000	-3,750	4,102	-3,750	#DIV/0!
1,478	0,000	1,478	0,000	0,000	1,478	0,000	1,478	0,000	1,478	0,000	0,000	1,478	0,000	#DIV/0!
9,93	10,00	9,93	13,00	10,00	9,93	10,00	9,93	10,00	9,93	30,00	10,00	9,93	10,00	0,00
303,12	313,12	323,05	336,05	346,05	355,97	365,97	375,90	385,90	395,83	425,83	435,83	445,75	455,75	455,75
hleunigung: negativ [m/s²]" in der entsprechenden Rubrik eingeben - in die andere Rubrik nichts eingeben.														
10,000	5,000	10,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	20,000	5,000	10,000	5,000	
5,000	10,000	5,000	10,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	20,000	5,000	10,000	
		10,00	10,00	10,00	10,00			10,00	10,00			10,00	10,00	
7,500	-1,500					-1,500				7,500	7,500	-2,500		
0,000	0,000	3,750	0,000	-3,750	3,750	0,000	3,750	-3,750	0,000	0,000	0,000	3,750	-3,750	0,000
0,000	0,000	4,075	0,000	-3,750	4,075	0,000	4,075	-3,750	0,000	0,000	0,000	4,075	-3,750	0,000
1,458	0,000	1,479	0,000	0,000	1,479	0,000	1,479	0,000	1,458	2,958	0,000	1,479	0,000	0,000
5,73	25,00	10,00	10,00	10,00	10,00	25,00	10,00	10,00	5,73	21,48	75,00	10,00	10,00	0,00
425,14	450,14	460,14	470,14	480,14	490,14	515,14	525,14	535,14	540,87	562,35	637,35	647,35	657,35	657,35
0,74	3,33	1,31	1,00	1,33	1,31	3,33	1,31	1,33	0,74	1,41	6,00	1,31	1,33	0,00
23,80	27,13	28,44	29,44	30,77	32,08	35,41	36,72	38,05	38,79	40,20	46,20	47,51	48,84	48,84

iodenende (falls in der gleichen Zeile die Werte sind); bzw. in der gleichen Rubrik untereinander (falls in der gleichen Rubrik die Werte sind).															
ja	Ist noch ohne Funktion!														
8,000	-2,000	0,000	8,000	-2,000	0,000	8,000	-2,000	0,000	8,000	-2,000	0,000	4,000	-2,000		
3,00	10,00	3,00	3,00	15,00	3,00	3,00	10,00	3,00	3,00	10,00	3,00	5,00	10,00		
-21,12	-31,12	-34,12	-37,12	-52,12	-55,12	-58,12	-68,12	-71,12	-74,12	-84,12	-87,12	-92,12	-102,12	-102,12	
23,400	-20,000	0,000	23,400	-30,000	0,000	23,400	-20,000	0,000	23,400	-20,000	0,000	19,700	-20,000	0,000	
27,483	7,483	7,483	30,883	0,883	0,883	24,283	4,283	4,283	27,683	7,683	7,683	27,383	7,383	7,383	
4,078	0,000	0,000	4,588	0,000	0,000	3,598	0,000	0,000	4,108	0,000	0,000	4,085	0,000	0,000	
48,21	174,83	22,45	58,41	238,25	2,65	38,61	142,83	12,85	48,81	176,83	23,05	88,39	173,83	0,00	
181,44	356,28	378,73	437,13	675,39	678,04	716,64	859,48	872,33	921,13	1097,97	1121,02	1209,41	1383,25	1383,25	
5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	10,000	5,000	10,000	5,000	10,000	5,000		
10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	10,000	5,000	10,000	5,000	10,000		
10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	30,00	10,00	10,00	10,00	10,00	10,00		
170,00	180,00	190,00	200,00	210,00	220,00	230,00	240,00	270,00	280,00	290,00	300,00	310,00	320,00	320,00	
-3,750	3,750	-3,750	3,750	-3,750	3,750	-3,750	3,750	0,000	-3,750	3,750	-3,750	3,750	-3,750	#DIV/0!	
-3,750	4,075	-3,750	4,075	-3,750	4,075	-3,750	4,075	0,000	-3,750	4,075	-3,750	4,075	-3,750	#DIV/0!	
0,000	1,479	0,000	1,479	0,000	1,479	0,000	1,479	0,000	0,000	1,479	0,000	1,479	0,000	#DIV/0!	
1,33	1,31	1,33	1,31	1,33	1,31	1,33	1,31	3,00	1,33	1,31	1,33	1,31	1,33	0,00	
-31,10	-32,41	-33,74	-35,05	-36,38	-37,69	-39,03	-40,33	-43,33	-44,67	-45,98	-47,31	-48,62	-49,95	-49,95	
10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000		
5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000		
4,167	-3,750	4,167	-3,750	4,167	-3,750	4,167	-3,750	4,167	-3,750	4,167	-3,750	4,167	-3,750		
1,477	0,000	1,477	0,000	1,477	0,000	1,477	0,000	1,477	0,000	1,477	0,000	1,477	0,000	0,000	
9,74	10,00	9,74	10,00	9,74	10,00	9,74	10,00	9,74	10,00	9,74	10,00	9,74	10,00	0,00	
309,67	319,67	329,41	339,41	349,15	359,15	368,89	378,89	388,63	398,63	408,37	418,37	428,10	438,10	438,10	
1,27	1,33	1,27	1,33	1,27	1,33	1,27	1,33	1,27	1,33	1,27	1,33	1,27	1,33	0,00	
-24,28	-25,62	-26,89	-28,22	-29,50	-30,83	-32,11	-33,44	-34,72	-36,05	-37,32	-38,66	-39,93	-41,27	-41,27	

10,000	5,000	10,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	10,000	5,000	10,000	5,000	
5,000	10,000	5,000	10,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	10,000	5,000	10,000	
1,30	1,33	1,30	1,30	1,33	1,30	1,33	1,30	1,33	1,30	3,00	1,33	1,30	1,33	
-21,53	-22,87	-24,17	-25,47	-26,80	-28,10	-29,43	-30,73	-32,07	-33,37	-36,37	-37,70	-39,00	-40,33	-40,33
3,846	-3,750	3,846	0,000	-3,750	3,846	-3,750	3,846	-3,750	3,846	0,000	-3,750	3,846	-3,750	#DIV/0!
4,102	-3,750	4,102	0,000	-3,750	4,102	-3,750	4,102	-3,750	4,102	0,000	-3,750	4,102	-3,750	#DIV/0!
1,478	0,000	1,478	0,000	0,000	1,478	0,000	1,478	0,000	1,478	0,000	0,000	1,478	0,000	#DIV/0!
9,93	10,00	9,93	13,00	10,00	9,93	10,00	9,93	10,00	9,93	30,00	10,00	9,93	10,00	0,00
303,12	313,12	323,05	336,05	346,05	355,97	365,97	375,90	385,90	395,83	425,83	435,83	445,75	455,75	455,75
hleunigung: negativ [m/s²]" in der entsprechenden Rubrik eingeben - in die andere Rubrik nichts eingeben.														
10,000	5,000	10,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	20,000	5,000	10,000	5,000	
5,000	10,000	5,000	10,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	20,000	5,000	10,000	
		10,00	10,00	10,00	10,00			10,00	10,00			10,00	10,00	
7,500	-1,500						-1,500			7,500	7,500	-2,500		
0,000	0,000	3,750	0,000	-3,750	3,750	0,000	3,750	-3,750	0,000	0,000	0,000	3,750	-3,750	0,000
0,000	0,000	4,075	0,000	-3,750	4,075	0,000	4,075	-3,750	0,000	0,000	0,000	4,075	-3,750	0,000
1,458	0,000	1,479	0,000	0,000	1,479	0,000	1,479	0,000	1,458	2,958	0,000	1,479	0,000	0,000
5,73	25,00	10,00	10,00	10,00	10,00	25,00	10,00	10,00	5,73	21,48	75,00	10,00	10,00	0,00
425,14	450,14	460,14	470,14	480,14	490,14	515,14	525,14	535,14	540,87	562,35	637,35	647,35	657,35	657,35
0,74	3,33	1,31	1,00	1,33	1,31	3,33	1,31	1,33	0,74	1,41	6,00	1,31	1,33	0,00
-23,80	-27,13	-28,44	-29,44	-30,77	-32,08	-35,41	-36,72	-38,05	-38,79	-40,20	-46,20	-47,51	-48,84	-48,84

Verzögerung oder einer Beschleunigung (daraus ergibt sich eine Parabel) aus den Tabellen unten erstellt.
 $(v * \Delta t) + (-a/2 * \Delta t^2)$ - gerechnet. Es sind dies 20 Zwischenetappen je Etappe. Der Wegverlauf muss bei $a > < 0,00$ eine Parabel sein.

0,1500	0,5000	0,1500	0,1500	0,7500	0,1500	0,1500	0,5000	0,1500	0,1500	0,5000	0,1500	0,2553	0,5000	0,0000
18,1200	21,1200	31,1200	34,1200	37,1200	52,1200	55,1200	58,1200	68,1200	71,1200	74,1200	84,1200	87,1200	92,1200	102,1200
18,2700	21,6200	31,2700	34,2700	37,8700	52,2700	55,2700	58,6200	68,2700	71,2700	74,6200	84,2700	87,3753	92,6200	102,1200
18,4200	22,1200	31,4200	34,4200	38,6200	52,4200	55,4200	59,1200	68,4200	71,4200	75,1200	84,4200	87,6305	93,1200	102,1200
18,5700	22,6200	31,5700	34,5700	39,3700	52,5700	55,5700	59,6200	68,5700	71,5700	75,6200	84,5700	87,8858	93,6200	102,1200
18,7200	23,1200	31,7200	34,7200	40,1200	52,7200	55,7200	60,1200	68,7200	71,7200	76,1200	84,7200	88,1411	94,1200	102,1200
18,8700	23,6200	31,8700	34,8700	40,8700	52,8700	55,8700	60,6200	68,8700	71,8700	76,6200	84,8700	88,3963	94,6200	102,1200
19,0200	24,1200	32,0200	35,0200	41,6200	53,0200	56,0200	61,1200	69,0200	72,0200	77,1200	85,0200	88,6516	95,1200	102,1200
19,1700	24,6200	32,1700	35,1700	42,3700	53,1700	56,1700	61,6200	69,1700	72,1700	77,6200	85,1700	88,9068	95,6200	102,1200
19,3200	25,1200	32,3200	35,3200	43,1200	53,3200	56,3200	62,1200	69,3200	72,3200	78,1200	85,3200	89,1621	96,1200	102,1200
19,4700	25,6200	32,4700	35,4700	43,8700	53,4700	56,4700	62,6200	69,4700	72,4700	78,6200	85,4700	89,4174	96,6200	102,1200
19,6200	26,1200	32,6200	35,6200	44,6200	53,6200	56,6200	63,1200	69,6200	72,6200	79,1200	85,6200	89,6726	97,1200	102,1200
19,7700	26,6200	32,7700	35,7700	45,3700	53,7700	56,7700	63,6200	69,7700	72,7700	79,6200	85,7700	89,9279	97,6200	102,1200
19,9200	27,1200	32,9200	35,9200	46,1200	53,9200	56,9200	64,1200	69,9200	72,9200	80,1200	85,9200	90,1832	98,1200	102,1200
20,0700	27,6200	33,0700	36,0700	46,8700	54,0700	57,0700	64,6200	70,0700	73,0700	80,6200	86,0700	90,4384	98,6200	102,1200
20,2200	28,1200	33,2200	36,2200	47,6200	54,2200	57,2200	65,1200	70,2200	73,2200	81,1200	86,2200	90,6937	99,1200	102,1200
20,3700	28,6200	33,3700	36,3700	48,3700	54,3700	57,3700	65,6200	70,3700	73,3700	81,6200	86,3700	90,9489	99,6200	102,1200
20,5200	29,1200	33,5200	36,5200	49,1200	54,5200	57,5200	66,1200	70,5200	73,5200	82,1200	86,5200	91,2042	100,1200	102,1200
20,6700	29,6200	33,6700	36,6700	49,8700	54,6700	57,6700	66,6200	70,6700	73,6700	82,6200	86,6700	91,4595	100,6200	102,1200
20,8200	30,1200	33,8200	36,8200	50,6200	54,8200	57,8200	67,1200	70,8200	73,8200	83,1200	86,8200	91,7147	101,1200	102,1200
20,9700	30,6200	33,9700	36,9700	51,3700	54,9700	57,9700	67,6200	70,9700	73,9700	83,6200	86,9700	91,9700	101,6200	102,1200
21,1200	31,1200	34,1200	37,1200	52,1200	55,1200	58,1200	68,1200	71,1200	74,1200	84,1200	87,1200	92,1200	102,1200	102,1200
133,238	181,444	356,279	378,729	437,135	675,387	678,038	716,643	859,478	872,329	921,134	1097,969	1121,020	1209,414	1383,249
133,941	194,936	357,401	379,942	459,735	675,520	678,260	728,535	860,121	873,061	934,726	1099,122	1123,111	1222,856	1383,249
134,823	207,927	358,524	381,334	481,210	675,652	678,663	739,927	860,763	873,974	947,818	1100,274	1125,463	1235,798	1383,249
135,886	220,419	359,646	382,907	501,560	675,785	679,245	750,818	861,406	875,066	960,409	1101,427	1128,076	1248,240	1383,249
137,129	232,411	360,769	384,659	520,785	675,917	680,008	761,210	862,048	876,339	972,501	1102,579	1130,950	1260,181	1383,249
138,551	243,903	361,891	386,592	538,885	676,050	680,950	771,102	862,691	877,791	984,093	1103,732	1134,084	1271,623	1383,249
140,154	254,894	363,014	388,704	555,861	676,182	682,073	780,494	863,333	879,424	995,185	1104,884	1137,479	1282,565	1383,249
141,936	265,386	364,137	390,997	571,711	676,315	683,375	789,385	863,976	881,236	1005,776	1106,037	1141,134	1293,007	1383,249
143,899	275,378	365,259	393,470	586,436	676,447	684,858	797,777	864,618	883,229	1015,868	1107,189	1145,050	1302,948	1383,249
146,041	284,870	366,382	396,122	600,036	676,580	686,520	805,669	865,261	885,401	1025,460	1108,342	1149,227	1312,390	1383,249
148,364	293,861	367,504	398,955	612,511	676,712	688,363	813,061	865,903	887,754	1034,552	1109,494	1153,665	1321,332	1383,249
150,866	302,353	368,627	401,967	623,861	676,845	690,385	819,952	866,546	890,286	1043,143	1110,647	1158,363	1329,774	1383,249
153,549	310,345	369,749	405,160	634,086	676,978	692,588	826,344	867,188	892,999	1051,235	1111,799	1163,321	1337,715	1383,249
156,411	317,837	370,872	408,532	643,186	677,110	694,971	832,236	867,831	895,891	1058,827	1112,952	1168,540	1345,157	1383,249
159,454	324,828	371,994	412,085	651,162	677,243	697,533	837,628	868,473	898,964	1065,919	1114,104	1174,020	1352,099	1383,249
162,676	331,320	373,117	415,817	658,012	677,375	700,276	842,519	869,116	902,216	1072,510	1115,257	1179,761	1358,541	1383,249
166,079	337,312	374,239	419,730	663,737	677,508	703,198	846,911	869,759	905,649	1078,602	1116,409	1185,762	1364,482	1383,249
169,661	342,804	375,362	423,822	668,337	677,640	706,301	850,803	870,401	909,262	1084,194	1117,562	1192,024	1369,924	1383,249
173,424	347,795	376,484	428,095	671,812	677,773	709,583	854,195	871,044	913,054	1089,286	1118,714	1198,546	1374,866	1383,249
177,366	352,287	377,607	432,547	674,162	677,905	713,046	857,086	871,686	917,027	1093,877	1119,867	1205,329	1379,308	1383,249
181,444	356,279	378,729	437,135	675,387	678,038	716,643	859,478	872,329	921,134	1097,969	1121,020	1209,414	1383,249	1383,249

0,0667	0,0609	0,0667	0,0609	0,0667	0,0609	0,0667	0,0609	0,1500	0,0667	0,0609	0,0667	0,0609	0,0667	0,0000
29,7692	31,1025	32,4104	33,7437	35,0516	36,3849	37,6928	39,0261	40,3340	43,3340	44,6673	45,9752	47,3085	48,6163	49,9497
29,8359	31,1635	32,4771	33,8047	35,1183	36,4459	37,7594	39,0871	40,4840	43,4006	44,7282	46,0418	47,3694	48,6830	49,9497
29,9025	31,2244	32,5437	33,8656	35,1849	36,5068	37,8261	39,1480	40,6340	43,4673	44,7892	46,1085	47,4304	48,7497	49,9497
29,9692	31,2854	32,6104	33,9266	35,2516	36,5677	37,8928	39,2089	40,7840	43,5340	44,8501	46,1752	47,4913	48,8163	49,9497
30,0359	31,3463	32,6771	33,9875	35,3183	36,6287	37,9594	39,2699	40,9340	43,6006	44,9111	46,2418	47,5522	48,8830	49,9497
30,1025	31,4072	32,7437	34,0484	35,3849	36,6896	38,0261	39,3308	41,0840	43,6673	44,9720	46,3085	47,6132	48,9497	49,9497
30,1692	31,4682	32,8104	34,1094	35,4516	36,7506	38,0928	39,3918	41,2340	43,7340	45,0329	46,3752	47,6741	49,0163	49,9497
30,2359	31,5291	32,8771	34,1703	35,5183	36,8115	38,1594	39,4527	41,3840	43,8006	45,0939	46,4418	47,7351	49,0830	49,9497
30,3025	31,5901	32,9437	34,2313	35,5849	36,8724	38,2261	39,5136	41,5340	43,8673	45,1548	46,5085	47,7960	49,1497	49,9497
30,3692	31,6510	33,0104	34,2922	35,6516	36,9334	38,2928	39,5746	41,6840	43,9340	45,2158	46,5752	47,8569	49,2163	49,9497
30,4359	31,7119	33,0771	34,3531	35,7183	36,9943	38,3594	39,6355	41,8340	44,0006	45,2767	46,6418	47,9179	49,2830	49,9497
30,5025	31,7729	33,1437	34,4141	35,7849	37,0553	38,4261	39,6964	41,9840	44,0673	45,3376	46,7085	47,9788	49,3497	49,9497
30,5692	31,8338	33,2104	34,4750	35,8516	37,1162	38,4928	39,7574	42,1340	44,1340	45,3986	46,7752	48,0398	49,4163	49,9497
30,6359	31,8948	33,2771	34,5360	35,9183	37,1771	38,5594	39,8183	42,2840	44,2006	45,4595	46,8418	48,1007	49,4830	49,9497
30,7025	31,9557	33,3437	34,5969	35,9849	37,2381	38,6261	39,8793	42,4340	44,2673	45,5205	46,9085	48,1616	49,5497	49,9497
30,7692	32,0166	33,4104	34,6578	36,0516	37,2990	38,6928	39,9402	42,5840	44,3340	45,5814	46,9752	48,2226	49,6163	49,9497
30,8359	32,0776	33,4771	34,7188	36,1183	37,3600	38,7594	40,0011	42,7340	44,4006	45,6423	47,0418	48,2835	49,6830	49,9497
30,9025	32,1385	33,5437	34,7797	36,1849	37,4209	38,8261	40,0621	42,8840	44,4673	45,7033	47,1085	48,3445	49,7497	49,9497
30,9692	32,1995	33,6104	34,8406	36,2516	37,4818	38,8928	40,1230	43,0340	44,5340	45,7642	47,1752	48,4054	49,8163	49,9497
31,0359	32,2604	33,6771	34,9016	36,3183	37,5428	38,9594	40,1840	43,1840	44,6006	45,8252	47,2418	48,4663	49,8830	49,9497
31,1025	32,4104	33,7437	35,0516	36,3849	37,6928	39,0261	40,3340	43,3340	44,6673	45,9752	47,3085	48,6163	49,9497	49,9497
160,000	170,000	180,000	190,000	200,000	210,000	220,000	230,000	240,000	270,000	280,000	290,000	300,000	310,000	320,000
160,658	170,312	180,658	190,312	200,658	210,312	220,658	230,312	241,500	270,658	280,312	290,658	300,312	310,658	320,000
161,300	170,640	181,300	190,640	201,300	210,640	221,300	230,640	243,000	271,300	280,640	291,300	300,640	311,300	320,000
161,925	170,982	181,925	190,982	201,925	210,982	221,925	230,982	244,500	271,925	280,982	291,925	300,982	311,925	320,000
162,533	171,340	182,533	191,340	202,533	211,340	222,533	231,340	246,000	272,533	281,340	292,533	301,340	312,533	320,000
163,125	171,713	183,125	191,713	203,125	211,713	223,125	231,713	247,500	273,125	281,713	293,125	301,713	313,125	320,000
163,700	172,101	183,700	192,101	203,700	212,101	223,700	232,101	249,000	273,700	282,101	293,700	302,101	313,700	320,000
164,258	172,504	184,258	192,504	204,258	212,504	224,258	232,504	250,500	274,258	282,504	294,258	302,504	314,258	320,000
164,800	172,922	184,800	192,922	204,800	212,922	224,800	232,922	252,000	274,800	282,922	294,800	302,922	314,800	320,000
165,325	173,355	185,325	193,355	205,325	213,355	225,325	233,355	253,500	275,325	283,355	295,325	303,355	315,325	320,000
165,833	173,804	185,833	193,804	205,833	213,804	225,833	233,804	255,000	275,833	283,804	295,833	303,804	315,833	320,000
166,325	174,267	186,325	194,267	206,325	214,267	226,325	234,267	256,500	276,325	284,267	296,325	304,267	316,325	320,000
166,800	174,746	186,800	194,746	206,800	214,746	226,800	234,746	258,000	276,800	284,746	296,800	304,746	316,800	320,000
167,258	175,240	187,258	195,240	207,258	215,240	227,258	235,240	259,500	277,258	285,240	297,258	305,240	317,258	320,000
167,700	175,749	187,700	195,749	207,700	215,749	227,700	235,749	261,000	277,700	285,749	297,700	305,749	317,700	320,000
168,125	176,273	188,125	196,273	208,125	216,273	228,125	236,273	262,500	278,125	286,273	298,125	306,273	318,125	320,000
168,533	176,812	188,533	196,812	208,533	216,812	228,533	236,812	264,000	278,533	286,812	298,533	306,812	318,533	320,000
168,925	177,367	188,925	197,367	208,925	217,367	228,925	237,367	265,500	278,925	287,367	298,925	307,367	318,925	320,000
169,300	177,936	189,300	197,936	209,300	217,936	229,300	237,936	267,000	279,300	287,936	299,300	307,936	319,300	320,000
169,658	178,521	189,658	198,521	209,658	218,521	229,658	238,521	268,500	279,658	288,521	299,658	308,521	319,658	320,000
170,000	180,000	190,000	200,000	210,000	220,000	230,000	240,000	270,000	280,000	290,000	300,000	310,000	320,000	320,000

0,0592	0,0667	0,0592	0,0667	0,0592	0,0667	0,0592	0,0667	0,0592	0,0667	0,0592	0,0667	0,0592	0,0667	0,0000
23,0083	24,2833	25,6166	26,8916	28,2249	29,4999	30,8333	32,1083	33,4416	34,7166	36,0499	37,3249	38,6582	39,9332	41,2666
23,0675	24,3500	25,6758	26,9583	28,2842	29,5666	30,8925	32,1749	33,5008	34,7832	36,1091	37,3916	38,7174	39,9999	41,2666
23,1267	24,4166	25,7350	27,0249	28,3434	29,6333	30,9517	32,2416	33,5600	34,8499	36,1683	37,4582	38,7767	40,0666	41,2666
23,1859	24,4833	25,7942	27,0916	28,4026	29,6999	31,0109	32,3083	33,6192	34,9166	36,2275	37,5249	38,8359	40,1332	41,2666
23,2451	24,5500	25,8535	27,1583	28,4618	29,7666	31,0701	32,3749	33,6784	34,9832	36,2868	37,5916	38,8951	40,1999	41,2666
23,3043	24,6166	25,9127	27,2249	28,5210	29,8333	31,1293	32,4416	33,7376	35,0499	36,3460	37,6582	38,9543	40,2666	41,2666
23,3636	24,6833	25,9719	27,2916	28,5802	29,8999	31,1885	32,5083	33,7968	35,1166	36,4052	37,7249	39,0135	40,3332	41,2666
23,4228	24,7500	26,0311	27,3583	28,6394	29,9666	31,2477	32,5749	33,8561	35,1832	36,4644	37,7916	39,0727	40,3999	41,2666
23,4820	24,8166	26,0903	27,4249	28,6986	30,0333	31,3069	32,6416	33,9153	35,2499	36,5236	37,8582	39,1319	40,4666	41,2666
23,5412	24,8833	26,1495	27,4916	28,7578	30,0999	31,3662	32,7083	33,9745	35,3166	36,5828	37,9249	39,1911	40,5332	41,2666
23,6004	24,9500	26,2087	27,5583	28,8170	30,1666	31,4254	32,7749	34,0337	35,3832	36,6420	37,9916	39,2503	40,5999	41,2666
23,6596	25,0166	26,2679	27,6249	28,8763	30,2333	31,4846	32,8416	34,0929	35,4499	36,7012	38,0582	39,3095	40,6666	41,2666
23,7188	25,0833	26,3271	27,6916	28,9355	30,2999	31,5438	32,9083	34,1521	35,5166	36,7604	38,1249	39,3688	40,7332	41,2666
23,7780	25,1500	26,3863	27,7583	28,9947	30,3666	31,6030	32,9749	34,2113	35,5832	36,8196	38,1916	39,4280	40,7999	41,2666
23,8372	25,2166	26,4456	27,8249	29,0539	30,4333	31,6622	33,0416	34,2705	35,6499	36,8789	38,2582	39,4872	40,8666	41,2666
23,8964	25,2833	26,5048	27,8916	29,1131	30,4999	31,7214	33,1083	34,3297	35,7166	36,9381	38,3249	39,5464	40,9332	41,2666
23,9557	25,3500	26,5640	27,9583	29,1723	30,5666	31,7806	33,1749	34,3890	35,7832	36,9973	38,3916	39,6056	40,9999	41,2666
24,0149	25,4166	26,6232	28,0249	29,2315	30,6333	31,8398	33,2416	34,4482	35,8499	37,0565	38,4582	39,6648	41,0666	41,2666
24,0741	25,4833	26,6824	28,0916	29,2907	30,6999	31,8990	33,3083	34,5074	35,9166	37,1157	38,5249	39,7240	41,1332	41,2666
24,1333	25,5500	26,7416	28,1583	29,3499	30,7666	31,9583	33,3749	34,5666	35,9832	37,1749	38,5916	39,7832	41,1999	41,2666
24,2833	25,6166	26,8916	28,2249	29,4999	30,8333	32,1083	33,4416	34,7166	36,0499	37,3249	38,6582	39,9332	41,2666	41,2666
299,936	309,674	319,674	329,412	339,412	349,151	359,151	368,889	378,889	388,627	398,627	408,365	418,365	428,103	438,103
300,239	310,333	319,978	330,071	339,716	349,809	359,454	369,547	379,192	389,285	398,930	409,024	418,669	428,762	438,103
300,557	310,974	320,295	330,712	340,034	350,451	359,772	370,189	379,510	389,927	399,248	409,665	418,987	429,403	438,103
300,890	311,599	320,628	331,337	340,366	351,076	360,104	370,814	379,843	390,552	399,581	410,290	419,319	430,028	438,103
301,237	312,208	320,975	331,946	340,713	351,684	360,452	371,422	380,190	391,160	399,928	410,899	419,666	430,637	438,103
301,599	312,799	321,337	332,537	341,075	352,276	360,813	372,014	380,552	391,752	400,290	411,490	420,028	431,228	438,103
301,975	313,374	321,713	333,112	341,452	352,851	361,190	372,589	380,928	392,327	400,666	412,065	420,404	431,803	438,103
302,366	313,933	322,104	333,671	341,843	353,409	361,581	373,147	381,319	392,885	401,057	412,624	420,795	432,362	438,103
302,772	314,474	322,510	334,212	342,248	353,951	361,986	373,689	381,725	393,427	401,463	413,165	421,201	432,903	438,103
303,192	314,999	322,930	334,737	342,668	354,476	362,407	374,214	382,145	393,952	401,883	413,690	421,621	433,428	438,103
303,627	315,508	323,365	335,246	343,103	354,984	362,841	374,722	382,580	394,460	402,318	414,199	422,056	433,937	438,103
304,076	315,999	323,814	335,737	343,553	355,476	363,291	375,214	383,029	394,952	402,767	414,690	422,506	434,428	438,103
304,540	316,474	324,279	336,212	344,017	355,951	363,755	375,689	383,493	395,427	403,231	415,165	422,970	434,903	438,103
305,019	316,933	324,757	336,671	344,495	356,409	364,234	376,147	383,972	395,885	403,710	415,624	423,448	435,362	438,103
305,512	317,374	325,250	337,112	344,989	356,851	364,727	376,589	384,465	396,327	404,203	416,065	423,941	435,803	438,103
306,020	317,799	325,758	337,537	345,497	357,276	365,235	377,014	384,973	396,752	404,711	416,490	424,449	436,228	438,103
306,543	318,208	326,281	337,946	346,019	357,684	365,757	377,422	385,495	397,160	405,234	416,899	424,972	436,637	438,103
307,080	318,599	326,818	338,337	346,556	358,076	366,294	377,814	386,032	397,552	405,771	417,290	425,509	437,028	438,103
307,631	318,974	327,370	338,712	347,108	358,451	366,846	378,189	386,584	397,927	406,322	417,665	426,061	437,403	438,103
308,198	319,333	327,936	339,071	347,674	358,809	367,412	378,547	387,150	398,285	406,889	418,024	426,627	437,762	438,103
309,674	319,674	329,412	339,412	349,151	359,151	368,889	378,889	388,627	398,627	408,365	418,365	428,103	438,103	438,103

0,0605	0,0667	0,0605	0,0650	0,0667	0,0605	0,0667	0,0605	0,0667	0,0605	0,1500	0,0667	0,0605	0,0667	0,0000
20,2333	21,5333	22,8667	24,1667	25,4667	26,8000	28,1000	29,4333	30,7333	32,0667	33,3667	36,3667	37,7000	39,0000	40,3333
20,2939	21,6000	22,9272	24,2317	25,5333	26,8605	28,1667	29,4939	30,8000	32,1272	33,5167	36,4333	37,7605	39,0667	40,3333
20,3544	21,6667	22,9877	24,2967	25,6000	26,9211	28,2333	29,5544	30,8667	32,1877	33,6667	36,5000	37,8211	39,1333	40,3333
20,4149	21,7333	23,0482	24,3617	25,6667	26,9816	28,3000	29,6149	30,9333	32,2482	33,8167	36,5667	37,8816	39,2000	40,3333
20,4754	21,8000	23,1088	24,4267	25,7333	27,0421	28,3667	29,6754	31,0000	32,3088	33,9667	36,6333	37,9421	39,2667	40,3333
20,5360	21,8667	23,1693	24,4917	25,8000	27,1026	28,4333	29,7360	31,0667	32,3693	34,1167	36,7000	38,0026	39,3333	40,3333
20,5965	21,9333	23,2298	24,5567	25,8667	27,1632	28,5000	29,7965	31,1333	32,4298	34,2667	36,7667	38,0632	39,4000	40,3333
20,6570	22,0000	23,2904	24,6217	25,9333	27,2237	28,5667	29,8570	31,2000	32,4904	34,4167	36,8333	38,1237	39,4667	40,3333
20,7175	22,0667	23,3509	24,6867	26,0000	27,2842	28,6333	29,9175	31,2667	32,5509	34,5667	36,9000	38,1842	39,5333	40,3333
20,7781	22,1333	23,4114	24,7517	26,0667	27,3447	28,7000	29,9781	31,3333	32,6114	34,7167	36,9667	38,2447	39,6000	40,3333
20,8386	22,2000	23,4719	24,8167	26,1333	27,4053	28,7667	30,0386	31,4000	32,6719	34,8667	37,0333	38,3053	39,6667	40,3333
20,8991	22,2667	23,5325	24,8817	26,2000	27,4658	28,8333	30,0991	31,4667	32,7325	35,0167	37,1000	38,3658	39,7333	40,3333
20,9596	22,3333	23,5930	24,9467	26,2667	27,5263	28,9000	30,1596	31,5333	32,7930	35,1667	37,1667	38,4263	39,8000	40,3333
21,0202	22,4000	23,6535	25,0117	26,3333	27,5868	28,9667	30,2202	31,6000	32,8535	35,3167	37,2333	38,4868	39,8667	40,3333
21,0807	22,4667	23,7140	25,0767	26,4000	27,6474	29,0333	30,2807	31,6667	32,9140	35,4667	37,3000	38,5474	39,9333	40,3333
21,1412	22,5333	23,7746	25,1417	26,4667	27,7079	29,1000	30,3412	31,7333	32,9746	35,6167	37,3667	38,6079	40,0000	40,3333
21,2018	22,6000	23,8351	25,2067	26,5333	27,7684	29,1667	30,4018	31,8000	33,0351	35,7667	37,4333	38,6684	40,0667	40,3333
21,2623	22,6667	23,8956	25,2717	26,6000	27,8289	29,2333	30,4623	31,8667	33,0956	35,9167	37,5000	38,7289	40,1333	40,3333
21,3228	22,7333	23,9561	25,3367	26,6667	27,8895	29,3000	30,5228	31,9333	33,1561	36,0667	37,5667	38,7895	40,2000	40,3333
21,3833	22,8000	24,0167	25,4017	26,7333	27,9500	29,3667	30,5833	32,0000	33,2167	36,2167	37,6333	38,8500	40,2667	40,3333
21,5333	22,8667	24,1667	25,4667	26,8000	28,1000	29,4333	30,7333	32,0667	33,3667	36,3667	37,7000	39,0000	40,3333	40,3333
293,278	303,219	313,219	323,160	336,160	346,160	356,101	366,101	376,042	386,042	395,983	425,983	435,983	445,924	455,924
293,588	303,877	313,529	323,810	336,818	346,470	356,759	366,411	376,700	386,352	397,483	426,641	436,293	446,582	455,924
293,913	304,519	313,854	324,460	337,460	346,795	357,401	366,736	377,342	386,677	398,983	427,283	436,618	447,224	455,924
294,253	305,144	314,194	325,110	338,085	347,135	358,026	367,076	377,967	387,017	400,483	427,908	436,958	447,849	455,924
294,608	305,752	314,549	325,760	338,693	347,490	358,634	367,431	378,575	387,373	401,983	428,516	437,314	448,457	455,924
294,979	306,344	314,920	326,410	339,285	347,861	359,226	367,802	379,167	387,743	403,483	429,108	437,684	449,049	455,924
295,364	306,919	315,305	327,060	339,860	348,246	359,801	368,187	379,742	388,128	404,983	429,683	438,069	449,624	455,924
295,764	307,477	315,705	327,710	340,418	348,646	360,359	368,587	380,300	388,528	406,483	430,241	438,469	450,182	455,924
296,180	308,019	316,121	328,360	340,960	349,062	360,901	369,003	380,842	388,944	407,983	430,783	438,885	450,724	455,924
296,610	308,544	316,551	329,010	341,485	349,492	361,426	369,433	381,367	389,374	409,483	431,308	439,315	451,249	455,924
297,055	309,052	316,996	329,660	341,993	349,937	361,934	369,878	381,875	389,819	410,983	431,816	439,761	451,757	455,924
297,516	309,544	317,457	330,310	342,485	350,398	362,426	370,339	382,367	390,280	412,483	432,308	440,221	452,249	455,924
297,991	310,019	317,932	330,960	342,960	350,873	362,901	370,814	382,842	390,755	413,983	432,783	440,696	452,724	455,924
298,482	310,477	318,423	331,610	343,418	351,364	363,359	371,305	383,300	391,246	415,483	433,241	441,187	453,182	455,924
298,987	310,919	318,928	332,260	343,860	351,869	363,801	371,810	383,742	391,751	416,983	433,683	441,692	453,624	455,924
299,508	311,344	319,449	332,910	344,285	352,390	364,226	372,331	384,167	392,272	418,483	434,108	442,213	454,049	455,924
300,043	311,752	319,984	333,560	344,693	352,925	364,634	372,866	384,575	392,808	419,983	434,516	442,749	454,457	455,924
300,594	312,144	320,535	334,210	345,085	353,476	365,026	373,417	384,967	393,358	421,483	434,908	443,299	454,849	455,924
301,160	312,519	321,101	334,860	345,460	354,042	365,401	373,983	385,342	393,924	422,983	435,283	443,865	455,224	455,924
301,740	312,877	321,681	335,510	345,818	354,622	365,759	374,563	385,700	394,504	424,483	435,641	444,445	455,582	455,924
303,219	313,219	323,160	336,160	346,160	356,101	366,101	376,042	386,042	395,983	425,983	435,983	445,924	455,924	455,924

0,0311	0,1667	0,0609	0,0500	0,0667	0,0609	0,1667	0,0609	0,0667	0,0311	0,0662	0,3000	0,0609	0,0667	0,0000
23,0536	23,7952	27,1286	28,4364	29,4364	30,7698	32,0776	35,4109	36,7188	38,0521	38,7938	40,2021	46,2021	47,5100	48,8433
23,0847	23,9619	27,1895	28,4864	29,5031	30,8307	32,2443	35,4719	36,7855	38,0833	38,8600	40,5021	46,2631	47,5767	48,8433
23,1158	24,1286	27,2504	28,5364	29,5698	30,8916	32,4109	35,5328	36,8521	38,1144	38,9263	40,8021	46,3240	47,6433	48,8433
23,1470	24,2952	27,3114	28,5864	29,6364	30,9526	32,5776	35,5938	36,9188	38,1456	38,9925	41,1021	46,3849	47,7100	48,8433
23,1781	24,4619	27,3723	28,6364	29,7031	31,0135	32,7443	35,6547	36,9855	38,1767	39,0587	41,4021	46,4459	47,7767	48,8433
23,2093	24,6286	27,4333	28,6864	29,7698	31,0745	32,9109	35,7156	37,0521	38,2078	39,1249	41,7021	46,5068	47,8433	48,8433
23,2404	24,7952	27,4942	28,7364	29,8364	31,1354	33,0776	35,7766	37,1188	38,2390	39,1912	42,0021	46,5678	47,9100	48,8433
23,2715	24,9619	27,5551	28,7864	29,9031	31,1963	33,2443	35,8375	37,1855	38,2701	39,2574	42,3021	46,6287	47,9767	48,8433
23,3027	25,1286	27,6161	28,8364	29,9698	31,2573	33,4109	35,8985	37,2521	38,3013	39,3236	42,6021	46,6896	48,0433	48,8433
23,3338	25,2952	27,6770	28,8864	30,0364	31,3182	33,5776	35,9594	37,3188	38,3324	39,3898	42,9021	46,7506	48,1100	48,8433
23,3650	25,4619	27,7380	28,9364	30,1031	31,3791	33,7443	36,0203	37,3855	38,3635	39,4561	43,2021	46,8115	48,1767	48,8433
23,3961	25,6286	27,7989	28,9864	30,1698	31,4401	33,9109	36,0813	37,4521	38,3947	39,5223	43,5021	46,8725	48,2433	48,8433
23,4272	25,7952	27,8598	29,0364	30,2364	31,5010	34,0776	36,1422	37,5188	38,4258	39,5885	43,8021	46,9334	48,3100	48,8433
23,4584	25,9619	27,9208	29,0864	30,3031	31,5620	34,2443	36,2032	37,5855	38,4570	39,6548	44,1021	46,9943	48,3767	48,8433
23,4895	26,1286	27,9817	29,1364	30,3698	31,6229	34,4109	36,2641	37,6521	38,4881	39,7210	44,4021	47,0553	48,4433	48,8433
23,5207	26,2952	28,0427	29,1864	30,4364	31,6838	34,5776	36,3250	37,7188	38,5192	39,7872	44,7021	47,1162	48,5100	48,8433
23,5518	26,4619	28,1036	29,2364	30,5031	31,7448	34,7443	36,3860	37,7855	38,5504	39,8534	45,0021	47,1772	48,5767	48,8433
23,5829	26,6286	28,1645	29,2864	30,5698	31,8057	34,9109	36,4469	37,8521	38,5815	39,9197	45,3021	47,2381	48,6433	48,8433
23,6141	26,7952	28,2255	29,3364	30,6364	31,8667	35,0776	36,5079	37,9188	38,6127	39,9859	45,6021	47,2990	48,7100	48,8433
23,6452	26,9619	28,2864	29,3864	30,7031	31,9276	35,2443	36,5688	37,9855	38,6438	40,0521	45,9021	47,3600	48,7767	48,8433
23,7952	27,1286	28,4364	29,4364	30,7698	32,0776	35,4109	36,7188	38,0521	38,7938	40,2021	46,2021	47,5100	48,8433	48,8433
419,411	425,140	450,140	460,140	470,140	480,140	490,140	515,140	525,140	535,140	540,869	562,348	637,348	647,348	657,348
419,570	426,786	450,452	460,640	470,798	480,452	491,786	515,452	525,798	535,299	541,548	568,235	637,660	648,006	657,348
419,737	428,390	450,780	461,140	471,440	480,780	493,390	515,780	526,440	535,466	542,259	573,898	637,987	648,648	657,348
419,911	429,952	451,122	461,640	472,065	481,122	494,952	516,122	527,065	535,640	543,004	579,335	638,330	649,273	657,348
420,092	431,473	451,480	462,140	472,673	481,480	496,473	516,480	527,673	535,821	543,781	584,548	638,688	649,881	657,348
420,280	432,952	451,853	462,640	473,265	481,853	497,952	516,853	528,265	536,009	544,591	589,535	639,060	650,473	657,348
420,476	434,390	452,241	463,140	473,840	482,241	499,390	517,241	528,840	536,205	545,435	594,298	639,448	651,048	657,348
420,679	435,786	452,644	463,640	474,398	482,644	500,786	517,644	529,398	536,408	546,311	598,835	639,851	651,606	657,348
420,889	437,140	453,062	464,140	474,940	483,062	502,140	518,062	529,940	536,618	547,220	603,148	640,270	652,148	657,348
421,107	438,452	453,495	464,640	475,465	483,495	503,452	518,495	530,465	536,836	548,162	607,235	640,703	652,673	657,348
421,332	439,723	453,944	465,140	475,973	483,944	504,723	518,944	530,973	537,061	549,136	611,098	641,151	653,181	657,348
421,564	440,952	454,407	465,640	476,465	484,407	505,952	519,407	531,465	537,293	550,144	614,735	641,615	653,673	657,348
421,803	442,140	454,886	466,140	476,940	484,886	507,140	519,886	531,940	537,532	551,185	618,148	642,094	654,148	657,348
422,050	443,286	455,380	466,640	477,398	485,380	508,286	520,380	532,398	537,779	552,258	621,335	642,588	654,606	657,348
422,304	444,390	455,889	467,140	477,840	485,889	509,390	520,889	532,840	538,033	553,365	624,298	643,097	655,048	657,348
422,565	445,452	456,413	467,640	478,265	486,413	510,452	521,413	533,265	538,294	554,504	627,035	643,621	655,473	657,348
422,833	446,473	456,952	468,140	478,673	486,952	511,473	521,952	533,673	538,562	555,676	629,548	644,160	655,881	657,348
423,109	447,452	457,507	468,640	479,065	487,507	512,452	522,507	534,065	538,838	556,881	631,835	644,715	656,273	657,348
423,392	448,390	458,076	469,140	479,440	488,076	513,390	523,076	534,440	539,121	558,119	633,898	645,284	656,648	657,348
423,682	449,286	458,661	469,640	479,798	488,661	514,286	523,661	534,798	539,411	559,390	635,735	645,869	657,006	657,348
425,140	450,140	460,140	470,140	480,140	490,140	515,140	525,140	535,140	540,869	562,348	637,348	647,348	657,348	657,348

0,1500	0,5000	0,1500	0,1500	0,7500	0,1500	0,1500	0,5000	0,1500	0,1500	0,5000	0,1500	0,2553	0,5000	0,0000
-18,1200	-21,1200	-31,1200	-34,1200	-37,1200	-52,1200	-55,1200	-58,1200	-68,1200	-71,1200	-74,1200	-84,1200	-87,1200	-92,1200	-102,1200
-18,2700	-21,6200	-31,2700	-34,2700	-37,8700	-52,2700	-55,2700	-58,6200	-68,2700	-71,2700	-74,6200	-84,2700	-87,3753	-92,6200	-102,1200
-18,4200	-22,1200	-31,4200	-34,4200	-38,6200	-52,4200	-55,4200	-59,1200	-68,4200	-71,4200	-75,1200	-84,4200	-87,6305	-93,1200	-102,1200
-18,5700	-22,6200	-31,5700	-34,5700	-39,3700	-52,5700	-55,5700	-59,6200	-68,5700	-71,5700	-75,6200	-84,5700	-87,8858	-93,6200	-102,1200
-18,7200	-23,1200	-31,7200	-34,7200	-40,1200	-52,7200	-55,7200	-60,1200	-68,7200	-71,7200	-76,1200	-84,7200	-88,1411	-94,1200	-102,1200
-18,8700	-23,6200	-31,8700	-34,8700	-40,8700	-52,8700	-55,8700	-60,6200	-68,8700	-71,8700	-76,6200	-84,8700	-88,3963	-94,6200	-102,1200
-19,0200	-24,1200	-32,0200	-35,0200	-41,6200	-53,0200	-56,0200	-61,1200	-69,0200	-72,0200	-77,1200	-85,0200	-88,6516	-95,1200	-102,1200
-19,1700	-24,6200	-32,1700	-35,1700	-42,3700	-53,1700	-56,1700	-61,6200	-69,1700	-72,1700	-77,6200	-85,1700	-88,9068	-95,6200	-102,1200
-19,3200	-25,1200	-32,3200	-35,3200	-43,1200	-53,3200	-56,3200	-62,1200	-69,3200	-72,3200	-78,1200	-85,3200	-89,1621	-96,1200	-102,1200
-19,4700	-25,6200	-32,4700	-35,4700	-43,8700	-53,4700	-56,4700	-62,6200	-69,4700	-72,4700	-78,6200	-85,4700	-89,4174	-96,6200	-102,1200
-19,6200	-26,1200	-32,6200	-35,6200	-44,6200	-53,6200	-56,6200	-63,1200	-69,6200	-72,6200	-79,1200	-85,6200	-89,6726	-97,1200	-102,1200
-19,7700	-26,6200	-32,7700	-35,7700	-45,3700	-53,7700	-56,7700	-63,6200	-69,7700	-72,7700	-79,6200	-85,7700	-89,9279	-97,6200	-102,1200
-19,9200	-27,1200	-32,9200	-35,9200	-46,1200	-53,9200	-56,9200	-64,1200	-69,9200	-72,9200	-80,1200	-85,9200	-90,1832	-98,1200	-102,1200
-20,0700	-27,6200	-33,0700	-36,0700	-46,8700	-54,0700	-57,0700	-64,6200	-70,0700	-73,0700	-80,6200	-86,0700	-90,4384	-98,6200	-102,1200
-20,2200	-28,1200	-33,2200	-36,2200	-47,6200	-54,2200	-57,2200	-65,1200	-70,2200	-73,2200	-81,1200	-86,2200	-90,6937	-99,1200	-102,1200
-20,3700	-28,6200	-33,3700	-36,3700	-48,3700	-54,3700	-57,3700	-65,6200	-70,3700	-73,3700	-81,6200	-86,3700	-90,9489	-99,6200	-102,1200
-20,5200	-29,1200	-33,5200	-36,5200	-49,1200	-54,5200	-57,5200	-66,1200	-70,5200	-73,5200	-82,1200	-86,5200	-91,2042	-100,1200	-102,1200
-20,6700	-29,6200	-33,6700	-36,6700	-49,8700	-54,6700	-57,6700	-66,6200	-70,6700	-73,6700	-82,6200	-86,6700	-91,4595	-100,6200	-102,1200
-20,8200	-30,1200	-33,8200	-36,8200	-50,6200	-54,8200	-57,8200	-67,1200	-70,8200	-73,8200	-83,1200	-86,8200	-91,7147	-101,1200	-102,1200
-20,9700	-30,6200	-33,9700	-36,9700	-51,3700	-54,9700	-57,9700	-67,6200	-70,9700	-73,9700	-83,6200	-86,9700	-91,9700	-101,6200	-102,1200
-21,1200	-31,1200	-34,1200	-37,1200	-52,1200	-55,1200	-58,1200	-68,1200	-71,1200	-74,1200	-84,1200	-87,1200	-92,1200	-102,1200	-102,1200
133,238	181,444	356,279	378,729	437,135	675,387	678,038	716,643	859,478	872,329	921,134	1097,969	1121,020	1209,414	1383,249
133,941	194,936	357,401	379,942	459,735	675,520	678,260	728,535	860,121	873,061	934,726	1099,122	1123,111	1222,856	1383,249
134,823	207,927	358,524	381,334	481,210	675,652	678,663	739,927	860,763	873,974	947,818	1100,274	1125,463	1235,798	1383,249
135,886	220,419	359,646	382,907	501,560	675,785	679,245	750,818	861,406	875,066	960,409	1101,427	1128,076	1248,240	1383,249
137,129	232,411	360,769	384,659	520,785	675,917	680,008	761,210	862,048	876,339	972,501	1102,579	1130,950	1260,181	1383,249
138,551	243,903	361,891	386,592	538,885	676,050	680,950	771,102	862,691	877,791	984,093	1103,732	1134,084	1271,623	1383,249
140,154	254,894	363,014	388,704	555,861	676,182	682,073	780,494	863,333	879,424	995,185	1104,884	1137,479	1282,565	1383,249
141,936	265,386	364,137	390,997	571,711	676,315	683,375	789,385	863,976	881,236	1005,776	1106,037	1141,134	1293,007	1383,249
143,899	275,378	365,259	393,470	586,436	676,447	684,858	797,777	864,618	883,229	1015,868	1107,189	1145,050	1302,948	1383,249
146,041	284,870	366,382	396,122	600,036	676,580	686,520	805,669	865,261	885,401	1025,460	1108,342	1149,227	1312,390	1383,249
148,364	293,861	367,504	398,955	612,511	676,712	688,363	813,061	865,903	887,754	1034,552	1109,494	1153,665	1321,332	1383,249
150,866	302,353	368,627	401,967	623,861	676,845	690,385	819,952	866,546	890,286	1043,143	1110,647	1158,363	1329,774	1383,249
153,549	310,345	369,749	405,160	634,086	676,978	692,588	826,344	867,188	892,999	1051,235	1111,799	1163,321	1337,715	1383,249
156,411	317,837	370,872	408,532	643,186	677,110	694,971	832,236	867,831	895,891	1058,827	1112,952	1168,540	1345,157	1383,249
159,454	324,828	371,994	412,085	651,162	677,243	697,533	837,628	868,473	898,964	1065,919	1114,104	1174,020	1352,099	1383,249
162,676	331,320	373,117	415,817	658,012	677,375	700,276	842,519	869,116	902,216	1072,510	1115,257	1179,761	1358,541	1383,249
166,079	337,312	374,239	419,730	663,737	677,508	703,198	846,911	869,759	905,649	1078,602	1116,409	1185,762	1364,482	1383,249
169,661	342,804	375,362	423,822	668,337	677,640	706,301	850,803	870,401	909,262	1084,194	1117,562	1192,024	1369,924	1383,249
173,424	347,795	376,484	428,095	671,812	677,773	709,583	854,195	871,044	913,054	1089,286	1118,714	1198,546	1374,866	1383,249
177,366	352,287	377,607	432,547	674,162	677,905	713,046	857,086	871,686	917,027	1093,877	1119,867	1205,329	1379,308	1383,249
181,444	356,279	378,729	437,135	675,387	678,038	716,643	859,478	872,329	921,134	1097,969	1121,020	1209,414	1383,249	1383,249

0,0667	0,0609	0,0667	0,0609	0,0667	0,0609	0,0667	0,0609	0,1500	0,0667	0,0609	0,0667	0,0609	0,0667	0,0000
-29,7692	-31,1025	-32,4104	-33,7437	-35,0516	-36,3849	-37,6928	-39,0261	-40,3340	-43,3340	-44,6673	-45,9752	-47,3085	-48,6163	-49,9497
-29,8359	-31,1635	-32,4771	-33,8047	-35,1183	-36,4459	-37,7594	-39,0871	-40,4840	-43,4006	-44,7282	-46,0418	-47,3694	-48,6830	-49,9497
-29,9025	-31,2244	-32,5437	-33,8656	-35,1849	-36,5068	-37,8261	-39,1480	-40,6340	-43,4673	-44,7892	-46,1085	-47,4304	-48,7497	-49,9497
-29,9692	-31,2854	-32,6104	-33,9266	-35,2516	-36,5677	-37,8928	-39,2089	-40,7840	-43,5340	-44,8501	-46,1752	-47,4913	-48,8163	-49,9497
-30,0359	-31,3463	-32,6771	-33,9875	-35,3183	-36,6287	-37,9594	-39,2699	-40,9340	-43,6006	-44,9111	-46,2418	-47,5522	-48,8830	-49,9497
-30,1025	-31,4072	-32,7437	-34,0484	-35,3849	-36,6896	-38,0261	-39,3308	-41,0840	-43,6673	-44,9720	-46,3085	-47,6132	-48,9497	-49,9497
-30,1692	-31,4682	-32,8104	-34,1094	-35,4516	-36,7506	-38,0928	-39,3918	-41,2340	-43,7340	-45,0329	-46,3752	-47,6741	-49,0163	-49,9497
-30,2359	-31,5291	-32,8771	-34,1703	-35,5183	-36,8115	-38,1594	-39,4527	-41,3840	-43,8006	-45,0939	-46,4418	-47,7351	-49,0830	-49,9497
-30,3025	-31,5901	-32,9437	-34,2313	-35,5849	-36,8724	-38,2261	-39,5136	-41,5340	-43,8673	-45,1548	-46,5085	-47,7960	-49,1497	-49,9497
-30,3692	-31,6510	-33,0104	-34,2922	-35,6516	-36,9334	-38,2928	-39,5746	-41,6840	-43,9340	-45,2158	-46,5752	-47,8569	-49,2163	-49,9497
-30,4359	-31,7119	-33,0771	-34,3531	-35,7183	-36,9943	-38,3594	-39,6355	-41,8340	-44,0006	-45,2767	-46,6418	-47,9179	-49,2830	-49,9497
-30,5025	-31,7729	-33,1437	-34,4141	-35,7849	-37,0553	-38,4261	-39,6964	-41,9840	-44,0673	-45,3376	-46,7085	-47,9788	-49,3497	-49,9497
-30,5692	-31,8338	-33,2104	-34,4750	-35,8516	-37,1162	-38,4928	-39,7574	-42,1340	-44,1340	-45,3986	-46,7752	-48,0398	-49,4163	-49,9497
-30,6359	-31,8948	-33,2771	-34,5360	-35,9183	-37,1771	-38,5594	-39,8183	-42,2840	-44,2006	-45,4595	-46,8418	-48,1007	-49,4830	-49,9497
-30,7025	-31,9557	-33,3437	-34,5969	-35,9849	-37,2381	-38,6261	-39,8793	-42,4340	-44,2673	-45,5205	-46,9085	-48,1616	-49,5497	-49,9497
-30,7692	-32,0166	-33,4104	-34,6578	-36,0516	-37,2990	-38,6928	-39,9402	-42,5840	-44,3340	-45,5814	-46,9752	-48,2226	-49,6163	-49,9497
-30,8359	-32,0776	-33,4771	-34,7188	-36,1183	-37,3600	-38,7594	-40,0011	-42,7340	-44,4006	-45,6423	-47,0418	-48,2835	-49,6830	-49,9497
-30,9025	-32,1385	-33,5437	-34,7797	-36,1849	-37,4209	-38,8261	-40,0621	-42,8840	-44,4673	-45,7033	-47,1085	-48,3445	-49,7497	-49,9497
-30,9692	-32,1995	-33,6104	-34,8406	-36,2516	-37,4818	-38,8928	-40,1230	-43,0340	-44,5340	-45,7642	-47,1752	-48,4054	-49,8163	-49,9497
-31,0359	-32,2604	-33,6771	-34,9016	-36,3183	-37,5428	-38,9594	-40,1840	-43,1840	-44,6006	-45,8252	-47,2418	-48,4663	-49,8830	-49,9497
-31,1025	-32,4104	-33,7437	-35,0516	-36,3849	-37,6928	-39,0261	-40,3340	-43,3340	-44,6673	-45,9752	-47,3085	-48,6163	-49,9497	-49,9497
160,000	170,000	180,000	190,000	200,000	210,000	220,000	230,000	240,000	270,000	280,000	290,000	300,000	310,000	320,000
160,658	170,312	180,658	190,312	200,658	210,312	220,658	230,312	241,500	270,658	280,312	290,658	300,312	310,658	320,000
161,300	170,640	181,300	190,640	201,300	210,640	221,300	230,640	243,000	271,300	280,640	291,300	300,640	311,300	320,000
161,925	170,982	181,925	190,982	201,925	210,982	221,925	230,982	244,500	271,925	280,982	291,925	300,982	311,925	320,000
162,533	171,340	182,533	191,340	202,533	211,340	222,533	231,340	246,000	272,533	281,340	292,533	301,340	312,533	320,000
163,125	171,713	183,125	191,713	203,125	211,713	223,125	231,713	247,500	273,125	281,713	293,125	301,713	313,125	320,000
163,700	172,101	183,700	192,101	203,700	212,101	223,700	232,101	249,000	273,700	282,101	293,700	302,101	313,700	320,000
164,258	172,504	184,258	192,504	204,258	212,504	224,258	232,504	250,500	274,258	282,504	294,258	302,504	314,258	320,000
164,800	172,922	184,800	192,922	204,800	212,922	224,800	232,922	252,000	274,800	282,922	294,800	302,922	314,800	320,000
165,325	173,355	185,325	193,355	205,325	213,355	225,325	233,355	253,500	275,325	283,355	295,325	303,355	315,325	320,000
165,833	173,804	185,833	193,804	205,833	213,804	225,833	233,804	255,000	275,833	283,804	295,833	303,804	315,833	320,000
166,325	174,267	186,325	194,267	206,325	214,267	226,325	234,267	256,500	276,325	284,267	296,325	304,267	316,325	320,000
166,800	174,746	186,800	194,746	206,800	214,746	226,800	234,746	258,000	276,800	284,746	296,800	304,746	316,800	320,000
167,258	175,240	187,258	195,240	207,258	215,240	227,258	235,240	259,500	277,258	285,240	297,258	305,240	317,258	320,000
167,700	175,749	187,700	195,749	207,700	215,749	227,700	235,749	261,000	277,700	285,749	297,700	305,749	317,700	320,000
168,125	176,273	188,125	196,273	208,125	216,273	228,125	236,273	262,500	278,125	286,273	298,125	306,273	318,125	320,000
168,533	176,812	188,533	196,812	208,533	216,812	228,533	236,812	264,000	278,533	286,812	298,533	306,812	318,533	320,000
168,925	177,367	188,925	197,367	208,925	217,367	228,925	237,367	265,500	278,925	287,367	298,925	307,367	318,925	320,000
169,300	177,936	189,300	197,936	209,300	217,936	229,300	237,936	267,000	279,300	287,936	299,300	307,936	319,300	320,000
169,658	178,521	189,658	198,521	209,658	218,521	229,658	238,521	268,500	279,658	288,521	299,658	308,521	319,658	320,000
170,000	180,000	190,000	200,000	210,000	220,000	230,000	240,000	270,000	280,000	290,000	300,000	310,000	320,000	320,000

0,0592	0,0667	0,0592	0,0667	0,0592	0,0667	0,0592	0,0667	0,0592	0,0667	0,0592	0,0667	0,0592	0,0667	0,0000
-23,0083	-24,2833	-25,6166	-26,8916	-28,2249	-29,4999	-30,8333	-32,1083	-33,4416	-34,7166	-36,0499	-37,3249	-38,6582	-39,9332	-41,2666
-23,0675	-24,3500	-25,6758	-26,9583	-28,2842	-29,5666	-30,8925	-32,1749	-33,5008	-34,7832	-36,1091	-37,3916	-38,7174	-39,9999	-41,2666
-23,1267	-24,4166	-25,7350	-27,0249	-28,3434	-29,6333	-30,9517	-32,2416	-33,5600	-34,8499	-36,1683	-37,4582	-38,7767	-40,0666	-41,2666
-23,1859	-24,4833	-25,7942	-27,0916	-28,4026	-29,6999	-31,0109	-32,3083	-33,6192	-34,9166	-36,2275	-37,5249	-38,8359	-40,1332	-41,2666
-23,2451	-24,5500	-25,8535	-27,1583	-28,4618	-29,7666	-31,0701	-32,3749	-33,6784	-34,9832	-36,2868	-37,5916	-38,8951	-40,1999	-41,2666
-23,3043	-24,6166	-25,9127	-27,2249	-28,5210	-29,8333	-31,1293	-32,4416	-33,7376	-35,0499	-36,3460	-37,6582	-38,9543	-40,2666	-41,2666
-23,3636	-24,6833	-25,9719	-27,2916	-28,5802	-29,8999	-31,1885	-32,5083	-33,7968	-35,1166	-36,4052	-37,7249	-39,0135	-40,3332	-41,2666
-23,4228	-24,7500	-26,0311	-27,3583	-28,6394	-29,9666	-31,2477	-32,5749	-33,8561	-35,1832	-36,4644	-37,7916	-39,0727	-40,3999	-41,2666
-23,4820	-24,8166	-26,0903	-27,4249	-28,6986	-30,0333	-31,3069	-32,6416	-33,9153	-35,2499	-36,5236	-37,8582	-39,1319	-40,4666	-41,2666
-23,5412	-24,8833	-26,1495	-27,4916	-28,7578	-30,0999	-31,3662	-32,7083	-33,9745	-35,3166	-36,5828	-37,9249	-39,1911	-40,5332	-41,2666
-23,6004	-24,9500	-26,2087	-27,5583	-28,8170	-30,1666	-31,4254	-32,7749	-34,0337	-35,3832	-36,6420	-37,9916	-39,2503	-40,5999	-41,2666
-23,6596	-25,0166	-26,2679	-27,6249	-28,8763	-30,2333	-31,4846	-32,8416	-34,0929	-35,4499	-36,7012	-38,0582	-39,3095	-40,6666	-41,2666
-23,7188	-25,0833	-26,3271	-27,6916	-28,9355	-30,2999	-31,5438	-32,9083	-34,1521	-35,5166	-36,7604	-38,1249	-39,3688	-40,7332	-41,2666
-23,7780	-25,1500	-26,3863	-27,7583	-28,9947	-30,3666	-31,6030	-32,9749	-34,2113	-35,5832	-36,8196	-38,1916	-39,4280	-40,7999	-41,2666
-23,8372	-25,2166	-26,4456	-27,8249	-29,0539	-30,4333	-31,6622	-33,0416	-34,2705	-35,6499	-36,8789	-38,2582	-39,4872	-40,8666	-41,2666
-23,8964	-25,2833	-26,5048	-27,8916	-29,1131	-30,4999	-31,7214	-33,1083	-34,3297	-35,7166	-36,9381	-38,3249	-39,5464	-40,9332	-41,2666
-23,9557	-25,3500	-26,5640	-27,9583	-29,1723	-30,5666	-31,7806	-33,1749	-34,3890	-35,7832	-36,9973	-38,3916	-39,6056	-40,9999	-41,2666
-24,0149	-25,4166	-26,6232	-28,0249	-29,2315	-30,6333	-31,8398	-33,2416	-34,4482	-35,8499	-37,0565	-38,4582	-39,6648	-41,0666	-41,2666
-24,0741	-25,4833	-26,6824	-28,0916	-29,2907	-30,6999	-31,8990	-33,3083	-34,5074	-35,9166	-37,1157	-38,5249	-39,7240	-41,1332	-41,2666
-24,1333	-25,5500	-26,7416	-28,1583	-29,3499	-30,7666	-31,9583	-33,3749	-34,5666	-35,9832	-37,1749	-38,5916	-39,7832	-41,1999	-41,2666
-24,1925	-25,6166	-26,8008	-28,2249	-29,4091	-30,8333	-32,0241	-33,4316	-34,6258	-36,0420	-37,2341	-38,6504	-39,8420	-41,2666	-41,2666
299,936	309,674	319,674	329,412	339,412	349,151	359,151	368,889	378,889	388,627	398,627	408,365	418,365	428,103	438,103
300,239	310,333	319,978	330,071	339,716	349,809	359,454	369,547	379,192	389,285	398,930	409,024	418,669	428,762	438,103
300,557	310,974	320,295	330,712	340,034	350,451	359,772	370,189	379,510	389,927	399,248	409,665	418,987	429,403	438,103
300,890	311,599	320,628	331,337	340,366	351,076	360,104	370,814	379,843	390,552	399,581	410,290	419,319	430,028	438,103
301,237	312,208	320,975	331,946	340,713	351,684	360,452	371,422	380,190	391,160	399,928	410,899	419,666	430,637	438,103
301,599	312,799	321,337	332,537	341,075	352,276	360,813	372,014	380,552	391,752	400,290	411,490	420,028	431,228	438,103
301,975	313,374	321,713	333,112	341,452	352,851	361,190	372,589	380,928	392,327	400,666	412,065	420,404	431,803	438,103
302,366	313,933	322,104	333,671	341,843	353,409	361,581	373,147	381,319	392,885	401,057	412,624	420,795	432,362	438,103
302,772	314,474	322,510	334,212	342,248	353,951	361,986	373,689	381,725	393,427	401,463	413,165	421,201	432,903	438,103
303,192	314,999	322,930	334,737	342,668	354,476	362,407	374,214	382,145	393,952	401,883	413,690	421,621	433,428	438,103
303,627	315,508	323,365	335,246	343,103	354,984	362,841	374,722	382,580	394,460	402,318	414,199	422,056	433,937	438,103
304,076	315,999	323,814	335,737	343,553	355,476	363,291	375,214	383,029	394,952	402,767	414,690	422,506	434,428	438,103
304,540	316,474	324,279	336,212	344,017	355,951	363,755	375,689	383,493	395,427	403,231	415,165	422,970	434,903	438,103
305,019	316,933	324,757	336,671	344,495	356,409	364,234	376,147	383,972	395,885	403,710	415,624	423,448	435,362	438,103
305,512	317,374	325,250	337,112	344,989	356,851	364,727	376,589	384,465	396,327	404,203	416,065	423,941	435,803	438,103
306,020	317,799	325,758	337,537	345,497	357,276	365,235	377,014	384,973	396,752	404,711	416,490	424,449	436,228	438,103
306,543	318,208	326,281	337,946	346,019	357,684	365,757	377,422	385,495	397,160	405,234	416,899	424,972	436,637	438,103
307,080	318,599	326,818	338,337	346,556	358,076	366,294	377,814	386,032	397,552	405,771	417,290	425,509	437,028	438,103
307,631	318,974	327,370	338,712	347,108	358,451	366,846	378,189	386,584	397,927	406,322	417,665	426,061	437,403	438,103
308,198	319,333	327,936	339,071	347,674	358,809	367,412	378,547	387,150	398,285	406,889	418,024	426,627	437,762	438,103
309,674	319,674	329,412	339,412	349,151	359,151	368,889	378,889	388,627	398,627	408,365	418,365	428,103	438,103	438,103

0,0605	0,0667	0,0605	0,0650	0,0667	0,0605	0,0667	0,0605	0,0667	0,0605	0,1500	0,0667	0,0605	0,0667	0,0000
-20,2333	-21,5333	-22,8667	-24,1667	-25,4667	-26,8000	-28,1000	-29,4333	-30,7333	-32,0667	-33,3667	-34,6667	-36,0000	-37,3000	-39,0000
-20,2939	-21,6000	-22,9272	-24,2317	-25,5333	-26,8605	-28,1667	-29,4939	-30,8000	-32,1272	-33,5167	-34,8333	-37,1605	-38,4667	-40,3333
-20,3544	-21,6667	-22,9877	-24,2967	-25,6000	-26,9211	-28,2333	-29,5544	-30,8667	-32,1877	-33,6667	-34,9833	-37,3211	-38,6333	-40,3333
-20,4149	-21,7333	-23,0482	-24,3617	-25,6667	-26,9816	-28,3000	-29,6149	-30,9333	-32,2482	-33,8167	-35,1482	-37,4816	-39,2000	-40,3333
-20,4754	-21,8000	-23,1088	-24,4267	-25,7333	-27,0421	-28,3667	-29,6754	-31,0000	-32,3088	-33,9667	-35,2833	-37,5421	-39,2667	-40,3333
-20,5360	-21,8667	-23,1693	-24,4917	-25,8000	-27,1026	-28,4333	-29,7360	-31,0667	-32,3693	-34,1167	-36,3667	-38,0267	-39,3333	-40,3333
-20,5965	-21,9333	-23,2298	-24,5567	-25,8667	-27,1632	-28,5000	-29,7965	-31,1333	-32,4298	-34,2667	-36,4333	-38,0932	-39,4000	-40,3333
-20,6570	-22,0000	-23,2904	-24,6217	-25,9333	-27,2237	-28,5667	-29,8570	-31,2000	-32,4904	-34,4167	-36,5333	-38,1537	-39,4667	-40,3333
-20,7175	-22,0667	-23,3509	-24,6867	-26,0000	-27,2842	-28,6333	-29,9175	-31,2667	-32,5509	-34,5667	-36,6000	-38,2182	-39,5333	-40,3333
-20,7781	-22,1333	-23,4114	-24,7517	-26,0667	-27,3447	-28,7000	-29,9781	-31,3333	-32,6114	-34,7167	-36,6667	-38,2837	-39,6000	-40,3333
-20,8386	-22,2000	-23,4719	-24,8167	-26,1333	-27,4053	-28,7667	-30,0386	-31,4000	-32,6719	-34,8667	-36,7333	-38,3492	-39,6667	-40,3333
-20,8991	-22,2667	-23,5325	-24,8817	-26,2000	-27,4658	-28,8333	-30,0991	-31,4667	-32,7325	-35,0167	-37,1000	-38,4146	-39,7333	-40,3333
-20,9596	-22,3333	-23,5930	-24,9467	-26,2667	-27,5263	-28,9000	-30,1596	-31,5333	-32,7930	-35,1667	-37,1667	-38,4801	-39,8000	-40,3333
-21,0202	-22,4000	-23,6535	-25,0117	-26,3333	-27,5868	-28,9667	-30,2202	-31,6000	-32,8535	-35,3167	-37,2333	-38,5456	-39,8667	-40,3333
-21,0807	-22,4667	-23,7140	-25,0767	-26,4000	-27,6474	-29,0333	-30,2807	-31,6667	-32,9140	-35,4667	-37,3000	-38,6111	-39,9333	-40,3333
-21,1412	-22,5333	-23,7746	-25,1417	-26,4667	-27,7079	-29,1000	-30,3412	-31,7333	-32,9746	-35,6167	-37,3667	-38,6766	-40,0000	-40,3333
-21,2018	-22,6000	-23,8351	-25,2067	-26,5333	-27,7684	-29,1667	-30,4018	-31,8000	-33,0351	-35,7667	-37,4333	-38,7421	-40,0667	-40,3333
-21,2623	-22,6667	-23,8956	-25,2717	-26,6000	-27,8289	-29,2333	-30,4623	-31,8667	-33,0956	-35,9167	-37,5000	-38,8076	-40,1333	-40,3333
-21,3228	-22,7333	-23,9561	-25,3367	-26,6667	-27,8895	-29,3000	-30,5228	-31,9333	-33,1561	-36,0667	-37,5667	-38,8731	-40,2000	-40,3333
-21,3833	-22,8000	-24,0167	-25,4017	-26,7333	-27,9500	-29,3667	-30,5833	-32,0000	-33,2167	-36,2167	-37,6333	-38,9386	-40,2667	-40,3333
-21,5333	-22,8667	-24,1667	-25,4667	-26,8000	-28,1000	-29,4333	-30,7333	-32,0667	-33,3667	-36,3667	-37,7000	-39,0000	-40,3333	-40,3333
293,278	303,219	313,219	323,160	336,160	346,160	356,101	366,101	376,042	386,042	395,983	425,983	435,983	445,924	455,924
293,588	303,877	313,529	323,810	336,818	346,470	356,759	366,411	376,700	386,352	397,483	426,641	436,293	446,582	455,924
293,913	304,519	313,854	324,460	337,460	346,795	357,401	366,736	377,342	386,677	398,983	427,283	436,618	447,224	455,924
294,253	305,144	314,194	325,110	338,085	347,135	358,026	367,076	377,967	387,017	400,483	427,908	436,958	447,849	455,924
294,608	305,752	314,549	325,760	338,693	347,490	358,634	367,431	378,575	387,373	401,983	428,516	437,314	448,457	455,924
294,979	306,344	314,920	326,410	339,285	347,861	359,226	367,802	379,167	387,743	403,483	429,108	437,684	449,049	455,924
295,364	306,919	315,305	327,060	339,860	348,246	359,801	368,187	379,742	388,128	404,983	429,683	438,069	449,624	455,924
295,764	307,477	315,705	327,710	340,418	348,646	360,359	368,587	380,300	388,528	406,483	430,241	438,469	450,182	455,924
296,180	308,019	316,121	328,360	340,960	349,062	360,901	369,003	380,842	388,944	407,983	430,783	438,885	450,724	455,924
296,610	308,544	316,551	329,010	341,485	349,492	361,426	369,433	381,367	389,374	409,483	431,308	439,315	451,249	455,924
297,055	309,052	316,996	329,660	341,993	349,937	361,934	369,878	381,875	389,819	410,983	431,816	439,761	451,757	455,924
297,516	309,544	317,457	330,310	342,485	350,398	362,426	370,339	382,367	390,280	412,483	432,308	440,221	452,249	455,924
297,991	310,019	317,932	330,960	342,960	350,873	362,901	370,814	382,842	390,755	413,983	432,783	440,696	452,724	455,924
298,482	310,477	318,423	331,610	343,418	351,364	363,359	371,305	383,300	391,246	415,483	433,241	441,187	453,182	455,924
298,987	310,919	318,928	332,260	343,860	351,869	363,801	371,810	383,742	391,751	416,983	433,683	441,692	453,624	455,924
299,508	311,344	319,449	332,910	344,285	352,390	364,226	372,331	384,167	392,272	418,483	434,108	442,213	454,049	455,924
300,043	311,752	319,984	333,560	344,693	352,925	364,634	372,866	384,575	392,808	419,983	434,516	442,749	454,457	455,924
300,594	312,144	320,535	334,210	345,085	353,476	365,026	373,417	384,967	393,358	421,483	434,908	443,299	454,849	455,924
301,160	312,519	321,101	334,860	345,460	354,042	365,401	373,983	385,342	393,924	422,983	435,283	443,865	455,224	455,924
301,740	312,877	321,681	335,510	345,818	354,622	365,759	374,563	385,700	394,504	424,483	435,641	444,445	455,582	455,924
303,219	313,219	323,160	336,160	346,160	356,101	366,101	376,042	386,042	395,983	425,983	435,983	445,924	455,924	455,924

0,0311	0,1667	0,0609	0,0500	0,0667	0,0609	0,1667	0,0609	0,0667	0,0311	0,0662	0,3000	0,0609	0,0667	0,0000
-23,0536	-23,7952	-27,1286	-28,4364	-29,4364	-30,7698	-32,0776	-35,4109	-36,7188	-38,0521	-38,7938	-40,2021	-46,2021	-47,5100	-48,8433
-23,0847	-23,9619	-27,1895	-28,4864	-29,5031	-30,8307	-32,2443	-35,4719	-36,7855	-38,0833	-38,8600	-40,5021	-46,2631	-47,5767	-48,8433
-23,1158	-24,1286	-27,2504	-28,5364	-29,5698	-30,8916	-32,4109	-35,5328	-36,8521	-38,1144	-38,9263	-40,8021	-46,3240	-47,6433	-48,8433
-23,1470	-24,2952	-27,3114	-28,5864	-29,6364	-30,9526	-32,5776	-35,5938	-36,9188	-38,1456	-38,9925	-41,1021	-46,3849	-47,7100	-48,8433
-23,1781	-24,4619	-27,3723	-28,6364	-29,7031	-31,0135	-32,7443	-35,6547	-36,9855	-38,1767	-39,0587	-41,4021	-46,4459	-47,7767	-48,8433
-23,2093	-24,6286	-27,4333	-28,6864	-29,7698	-31,0745	-32,9109	-35,7156	-37,0521	-38,2078	-39,1249	-41,7021	-46,5068	-47,8433	-48,8433
-23,2404	-24,7952	-27,4942	-28,7364	-29,8364	-31,1354	-33,0776	-35,7766	-37,1188	-38,2390	-39,1912	-42,0021	-46,5678	-47,9100	-48,8433
-23,2715	-24,9619	-27,5551	-28,7864	-29,9031	-31,1963	-33,2443	-35,8375	-37,1855	-38,2701	-39,2574	-42,3021	-46,6287	-47,9767	-48,8433
-23,3027	-25,1286	-27,6161	-28,8364	-29,9698	-31,2573	-33,4109	-35,8985	-37,2521	-38,3013	-39,3236	-42,6021	-46,6896	-48,0433	-48,8433
-23,3338	-25,2952	-27,6770	-28,8864	-30,0364	-31,3182	-33,5776	-35,9594	-37,3188	-38,3324	-39,3898	-42,9021	-46,7506	-48,1100	-48,8433
-23,3650	-25,4619	-27,7380	-28,9364	-30,1031	-31,3791	-33,7443	-36,0203	-37,3855	-38,3635	-39,4561	-43,2021	-46,8115	-48,1767	-48,8433
-23,3961	-25,6286	-27,7989	-28,9864	-30,1698	-31,4401	-33,9109	-36,0813	-37,4521	-38,3947	-39,5223	-43,5021	-46,8725	-48,2433	-48,8433
-23,4272	-25,7952	-27,8598	-29,0364	-30,2364	-31,5010	-34,0776	-36,1422	-37,5188	-38,4258	-39,5885	-43,8021	-46,9334	-48,3100	-48,8433
-23,4584	-25,9619	-27,9208	-29,0864	-30,3031	-31,5620	-34,2443	-36,2032	-37,5855	-38,4570	-39,6548	-44,1021	-46,9943	-48,3767	-48,8433
-23,4895	-26,1286	-27,9817	-29,1364	-30,3698	-31,6229	-34,4109	-36,2641	-37,6521	-38,4881	-39,7210	-44,4021	-47,0553	-48,4433	-48,8433
-23,5207	-26,2952	-28,0427	-29,1864	-30,4364	-31,6838	-34,5776	-36,3250	-37,7188	-38,5192	-39,7872	-44,7021	-47,1162	-48,5100	-48,8433
-23,5518	-26,4619	-28,1036	-29,2364	-30,5031	-31,7448	-34,7443	-36,3860	-37,7855	-38,5504	-39,8534	-45,0021	-47,1772	-48,5767	-48,8433
-23,5829	-26,6286	-28,1645	-29,2864	-30,5698	-31,8057	-34,9109	-36,4469	-37,8521	-38,5815	-39,9197	-45,3021	-47,2381	-48,6433	-48,8433
-23,6141	-26,7952	-28,2255	-29,3364	-30,6364	-31,8667	-35,0776	-36,5079	-37,9188	-38,6127	-39,9859	-45,6021	-47,2990	-48,7100	-48,8433
-23,6452	-26,9619	-28,2864	-29,3864	-30,7031	-31,9276	-35,2443	-36,5688	-37,9855	-38,6438	-40,0521	-45,9021	-47,3600	-48,7767	-48,8433
-23,6764	-27,1286	-28,3473	-29,4364	-30,7698	-32,0776	-35,4109	-36,7188	-38,0521	-38,7938	-40,2021	-46,2021	-47,5100	-48,8433	-48,8433
419,411	425,140	450,140	460,140	470,140	480,140	490,140	515,140	525,140	535,140	540,869	562,348	637,348	647,348	657,348
419,570	426,786	450,452	460,640	470,798	480,452	491,786	515,452	525,798	535,299	541,548	568,235	637,660	648,006	657,348
419,737	428,390	450,780	461,140	471,440	480,780	493,390	515,780	526,440	535,466	542,259	573,898	637,987	648,648	657,348
419,911	429,952	451,122	461,640	472,065	481,122	494,952	516,122	527,065	535,640	543,004	579,335	638,330	649,273	657,348
420,092	431,473	451,480	462,140	472,673	481,480	496,473	516,480	527,673	535,821	543,781	584,548	638,688	649,881	657,348
420,280	432,952	451,853	462,640	473,265	481,853	497,952	516,853	528,265	536,009	544,591	589,535	639,060	650,473	657,348
420,476	434,390	452,241	463,140	473,840	482,241	499,390	517,241	528,840	536,205	545,435	594,298	639,448	651,048	657,348
420,679	435,786	452,644	463,640	474,398	482,644	500,786	517,644	529,398	536,408	546,311	598,835	639,851	651,606	657,348
420,889	437,140	453,062	464,140	474,940	483,062	502,140	518,062	529,940	536,618	547,220	603,148	640,270	652,148	657,348
421,107	438,452	453,495	464,640	475,465	483,495	503,452	518,495	530,465	536,836	548,162	607,235	640,703	652,673	657,348
421,332	439,723	453,944	465,140	475,973	483,944	504,723	518,944	530,973	537,061	549,136	611,098	641,151	653,181	657,348
421,564	440,952	454,407	465,640	476,465	484,407	505,952	519,407	531,465	537,293	550,144	614,735	641,615	653,673	657,348
421,803	442,140	454,886	466,140	476,940	484,886	507,140	519,886	531,940	537,532	551,185	618,148	642,094	654,148	657,348
422,050	443,286	455,380	466,640	477,398	485,380	508,286	520,380	532,398	537,779	552,258	621,335	642,588	654,606	657,348
422,304	444,390	455,889	467,140	477,840	485,889	509,390	520,889	532,840	538,033	553,365	624,298	643,097	655,048	657,348
422,565	445,452	456,413	467,640	478,265	486,413	510,452	521,413	533,265	538,294	554,504	627,035	643,621	655,473	657,348
422,833	446,473	456,952	468,140	478,673	486,952	511,473	521,952	533,673	538,562	555,676	629,548	644,160	655,881	657,348
423,109	447,452	457,507	468,640	479,065	487,507	512,452	522,507	534,065	538,838	556,881	631,835	644,715	656,273	657,348
423,392	448,390	458,076	469,140	479,440	488,076	513,390	523,076	534,440	539,121	558,119	633,898	645,284	656,648	657,348
423,682	449,286	458,661	469,640	479,798	488,661	514,286	523,661	534,798	539,411	559,390	635,735	645,869	657,006	657,348
425,140	450,140	460,140	470,140	480,140	490,140	515,140	525,140	535,140	540,869	562,348	637,348	647,348	657,348	657,348

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