resultadosMFSaltosX2_0

	Chita4 - i9, 128 GB, 10 cores, 3.7 GHz							
	Método da Divisão				Método da Euclides			
n	p	q	tempo (ms)	HH:MM:SS,000	p	q	tempo (ms)	HH:MM:SS,000
8,664E+08	8273	104729	243	00:00:00,243	8273	104729	239	00:00:00,239
3,466E+09	16547	209459	684	00:00:00,684	16547	209459	672	00:00:00,672
1,387E+10	33107	418921	1925	00:00:01,925	33107	418921	1889	00:00:01,889
5,548E+10	66221	837847	5424	00:00:05,424	66221	837847	5328	00:00:05,328
2,220E+11	132469	1675697	15264	00:00:15,264	132469	1675697	15009	00:00:15,009
8,880E+11	264949	3351419	43740	00:00:43,740	264949	3351419	42542	00:00:42,542
3,552E+12	529927	6702841	123344	00:02:03,344	529927	6702841	121632	00:02:01,632
1,421E+13	1059857	13405687	347800	00:05:47,800	1059857	13405687	343062	00:05:43,062
5,683E+13			984045	00:16:24,045			971104	00:16:11,104
2,273E+14			2781131	00:46:21,131			2745535	00:45:45,535
9,093E+14			7868170	02:11:08,170			7768373	02:09:28,373
3,637E+15			22229088	06:10:29,088			21957590	06:05:57,590
1,455E+16			62851369	17:27:31,369			62075613	17:14:35,613
5,820E+16			177701403	49:21:41,403			175457184	48:44:17,184
2,328E+17			511508749	142:05:08,749			516681561	143:31:21,561
9,312E+17								
3,72460968E+18								
1,48984392E+19								
5,9593757E+19	2024-05-04	01:56:00	2025-05-18	09:13:00	2025-05-04	02:25:00	2025-05-18	09:13:00
2,3837503E+20	Paragem forçada após 14 dias				Paragem forçada após 14 dias			
9,53500123E+20								
3,8140005E+21								
1,5256002E+22								
6,1024008E+22								
2,44096032E+23								
9,76384128E+23								
3,90553651E+24								
1,56221461E+25								
6,24885842E+25								
2,49954337E+26								

9,99817347E+26							
3,99926939E+27							
1,59970776E+28							
6,39883102E+28							
2,55953241E+29							
1,02381296E+30							
4,09525186E+30							
1,63810074E+31							
6,55240297E+31							
2,62096119E+32							
1,04838447E+33							
4,1935379E+33							
1,67741516E+34							
6,70966064E+34							
2,68386426E+35							
1,0735457E+36							
4,29418281E+36							
1,71767312E+37							
6,87069249E+37							
2,748277E+38							
1,0993108E+39							
				bits	decimais	n bits x 0,301 decimais	
				60	18	Método da divisão e Euclides	
				86	26	Método de Fermat	
				128	39		

resultadosMFSaltosX2_0

			lista SaltosX2	229	69			
				256	77			
				512	154			
				1024	308			
				2048	616			
				4096	1232			

Método de Fermat				Método do Crivo Quadrático		
p	**q**	**tempo (ms)**	**HH:MM:SS,000**	**p**	**q**	**tempo (ms)**
104729	8273	5	00:00:00,005	8273	104729	5
209459	16547	10	00:00:00,010	16547	209459	4
418921	33107	20	00:00:00,020	418921	33107	88
837847	66221	40	00:00:00,040	66221	837847	99
1675697	132469	81	00:00:00,081	1675697	132469	2536
3351419	264949	162	00:00:00,162	3351419	264949	66147
6702841	529927	327	00:00:00,327	529927	6702841	8
13405687	1059857	652	00:00:00,652	1059857	13405687	29
26811401	2119717	1306	00:00:01,306	2119717	26811401	328
53622823	4239449	2615	00:00:02,615	4239449	53622823	176
107245669	8478907	5228	00:00:05,228	8478907	107245669	27
214491379	16957841	10463	00:00:10,463	214491379	16957841	431
428982787	33915701	20891	00:00:20,891	428982787	33915701	472
857965597	67831409	41812	00:00:41,812	857965597	67831409	44874
1715931197	135662827	83552	00:01:23,552	1715931197	135662827	1272
3431862397	271325683	166845	00:02:46,845	271325683	3431862397	212
6863724817	542651371	332711	00:05:32,711	542651371	6863724817	710
		709348	00:11:49,348	13727449691	1085302769	799
		1470535	00:24:30,535	2170605551	27454899403	1597
		2972001	00:49:32,001	4341211141	54909798821	359
		5956400	01:39:16,400	109819597663	8682422293	855
		11910957	03:18:30,957	219639195337	17364844603	11515
		23831055	06:37:11,055	439278390703	34729689223	3689
		47627596	13:13:47,596	69459378491	878556781439	11702
		95144813	26:25:44,813	1757113562947	138918756989	9221
		190135075	52:48:55,075	277837513979	3514227125957	9122
		389571562	108:12:51,562	555675027997	7028454251977	37301
		760543506	211:15:43,506	1111350056021	14056908503969	29588
				2222700112049	28113817007981	62857
				56227634015963	4445400224107	17848

resultadosMFSaltosX2_0

2024-05-12	16:38:00	2025-05-18	09:13:00	112455268031999	8890800448241	135406
Paragem forçada após	6 dias			17781600896573	224910536064017	169298
				449821072128037	35563201793173	127537
				71126403586349	899642144256109	122199
				142252807172713	1799284288512241	119634
				3598568577024503	284505614345461	702670
				569011228691011	7197137154049043	470673
				1138022457382051	$1,43942743080981E+16$	319689
				$2,87885486161963E+16$	2276044914764107	326914
				4552089829528243	$5,75770972323927E+16$	771645
				$9,10417965905654E+15$	$1,15154194464786E+17$	3978355
				$2,30308388929571E+17$	$1,82083593181131E+16$	3561989
				$4,60616777859142E+17$	$3,64167186362263E+16$	5495427
				$9,21233555718284E+17$	$7,28334372724525E+16$	5726932
				$1,84246711143657E+18$	$1,45666874544905E+17$	4291306
				$3,68493422287314E+18$	$2,9133374908981E+017$	10293705
				$5,82667498179621E+17$	$7,36986844574628E+18$	6122832
				$1,16533499635924E+18$	$1,47397368914926E+19$	7293988
				$2,33066999271848E+18$	$2,94794737829851E+19$	7255347
				$5,89589475659702E+19$	$4,66133998543697E+18$	23189218
				$9,32267997087393E+18$	$1,1791789513194E+020$	139622110

resultadosMFSaltosX2_0

HH:MM:SS,000	DD:HH:MM:SS
00:00:00,005	
00:00:00,004	
00:00:00,088	
00:00:00,099	
00:00:02,536	
00:01:06,147	
00:00:00,008	
00:00:00,029	
00:00:00,328	
00:00:00,176	
00:00:00,027	
00:00:00,431	
00:00:00,472	
00:00:44,874	
00:00:01,272	
00:00:00,212	
00:00:00,710	
00:00:00,799	
00:00:01,597	
00:00:00,359	
00:00:00,855	
00:00:11,515	
00:00:03,689	
00:00:11,702	
00:00:09,221	
00:00:09,122	
00:00:37,301	
00:00:29,588	
00:01:02,857	
00:00:17,848	

Comparação dos Métodc

Linux Suse 15 - Intel i9 - 128(

Tempos CPU (ms)

800000000

700000000

600000000

500000000

400000000
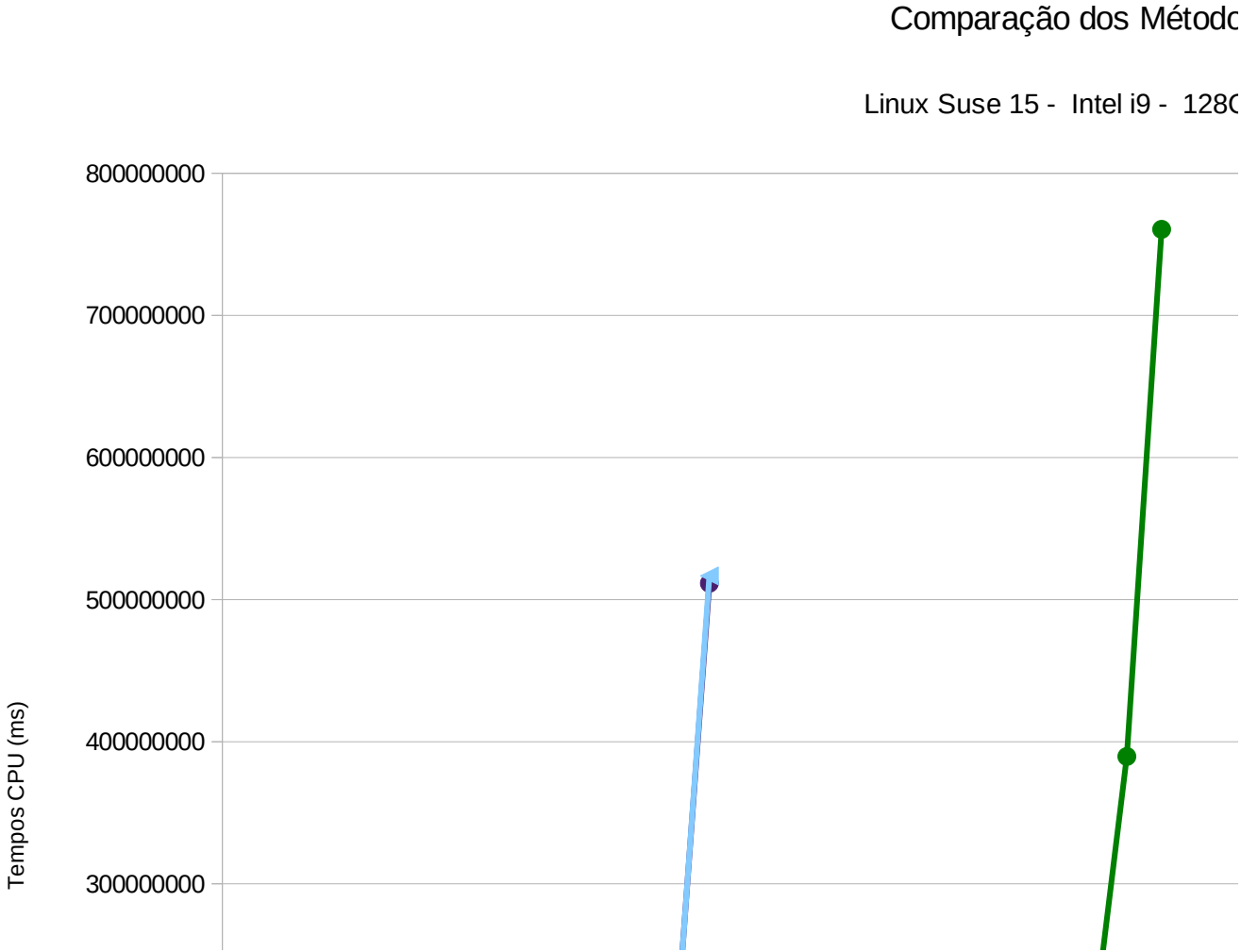
300000000

00:02:15,406	
00:02:49,298	
00:02:07,537	
00:02:02,199	
00:01:59,634	
00:11:42,670	
00:07:50,673	
00:05:19,689	
00:05:26,914	
00:12:51,645	
01:06:18,355	
00:59:21,989	
01:31:35,427	
01:35:26,932	
01:11:31,306	
02:51:33,705	
01:42:02,832	
02:01:33,988	
02:00:55,347	
06:26:29,218	
38:47:02,110	01:14:47:02,110
00:00:00,000	
00:00:00,000	
00:00:00,000	
00:00:00,000	
00:00:00,000	
00:00:00,000	
00:00:00,000	
00:00:00,000	
00:00:00,000	31:00:00:00,000
00:00:00,000	31:00:00:00,000
00:00:00,000	31:00:00:00,000
00:00:00,000	
00:00:00,000	

resultadosMFSaltosX2_0

n=p*q

00:00:00,000	
00:00:00,000	
00:00:00,000	
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00:00:00,000	
00:00:00,000	
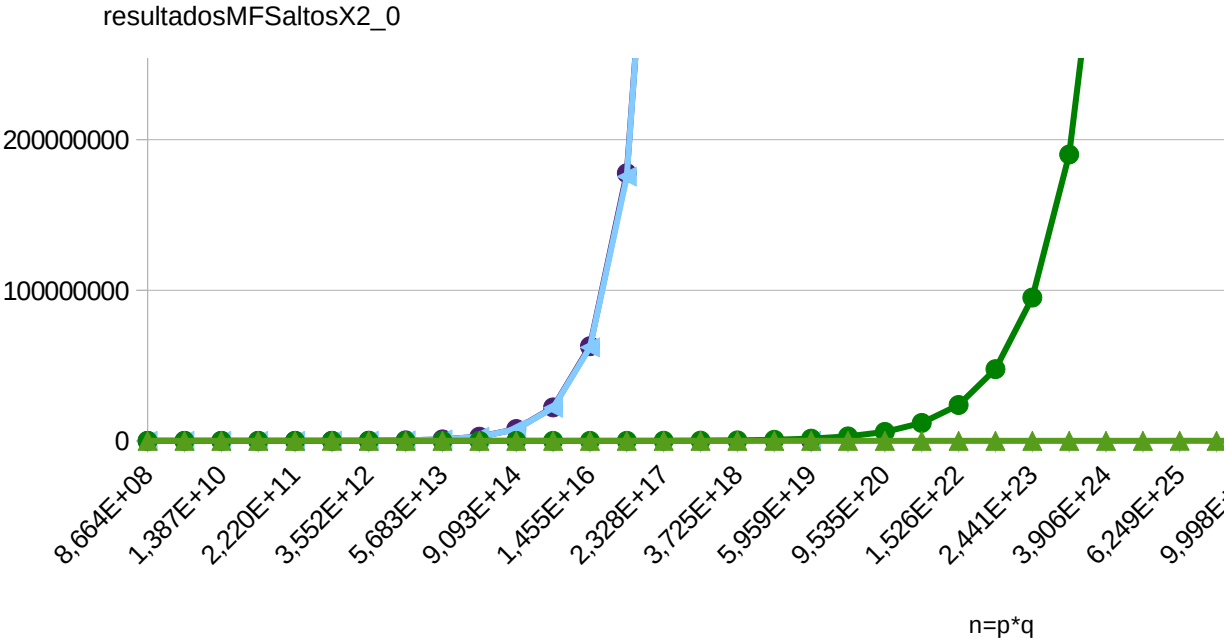
s de Factorização

GB - 10 cores - 3,7GHz

- ●— Método da Divisão
- ◀— Método da Euclides
- ●— Método de Fermat
- ▲— Método do Crivo Quadrático

resultadosMFSaltosX2_0

X axis labels: +26, 1,600E+28, 2,560E+29, 4,095E+30, 6,552E+31, 1,048E+33, 1,677E+34, 2,684E+35, 4,294E+36, 6,871E+37, 1,099E+39
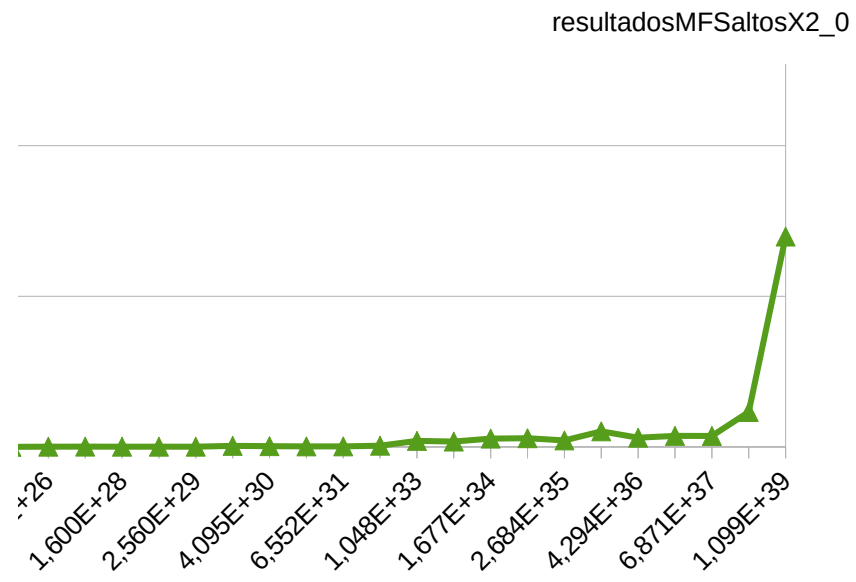
Método da Divisão

n	p	q	tempo (ms)	HH:MM:SS,000	DD:HH:MM:SS
866423017	8273	104729	243	00:00:00,243	
3465918073	16547	209459	684	00:00:00,684	
13869217547	33107	418921	1925	00:00:01,925	
55483066187	66221	837847	5424	00:00:05,424	
221977905893	132469	1675697	15264	00:00:15,264	
887955112631	264949	3351419	43740	00:00:43,740	
3552016422607	529927	6702841	123344	00:02:03,344	
14208111206759	1059857	13405687	347800	00:05:47,800	
56832582493517	2119717	26811401	984045	00:16:24,045	
227331223344527	4239449	53622823	2781131	00:46:21,131	
909326053603783	8478907	107245669	7868170	02:11:08,170	
3637310700952739	16957841	214491379	22229088	06:10:29,088	
1,4549251938E+16	33915701	428982787	62851369	17:27:31,369	
5,8197015318E+16	67831409	857965597	177701403	49:21:41,403	02:01:21:41,403
2,32788077123E+17	135662827	1715931197	511508749	142:05:08,749	05:22:05:08,749

Método da Euclides

n	p	q	tempo (ms)	HH:MM:SS,000	DD:HH:MM:SS
866423017	8273	104729	239	00:00:00,239	
3465918073	16547	209459	672	00:00:00,672	
13869217547	33107	418921	1889	00:00:01,889	
55483066187	66221	837847	5328	00:00:05,328	
221977905893	132469	1675697	15009	00:00:15,009	
887955112631	264949	3351419	42542	00:00:42,542	
3552016422607	529927	6702841	121632	00:02:01,632	
14208111206759	1059857	13405687	343062	00:05:43,062	
56832582493517	2119717	26811401	971104	00:16:11,104	
227331223344527	4239449	53622823	2745535	00:45:45,535	
909326053603783	8478907	107245669	7768373	02:09:28,373	
3637310700952739	16957841	214491379	21957590	06:05:57,590	
1,4549251938039E+16	33915701	428982787	62075613	17:14:35,613	
5,8197015318036E+16	67831409	857965597	175457184	48:44:17,184	02:00:44:17,184
2,3278807712251E+17	135662827	1715931197	516681561	143:31:21,561	05:23:31:21,561

Método de Fermat

	Método de Fermat				
n	p	q	tempo (ms)	HH:MM:SS,000	DD:HH:MM:SS
866423017	104729	8273	5	00:00:00,005	
3465918073	209459	16547	10	00:00:00,010	
13869217547	418921	33107	20	00:00:00,020	
55483066187	837847	66221	40	00:00:00,040	
221977905893	1675697	132469	81	00:00:00,081	
887955112631	3351419	264949	162	00:00:00,162	
3552016422607	6702841	529927	327	00:00:00,327	
14208111206759	13405687	1059857	652	00:00:00,652	
56832582493517	26811401	2119717	1306	00:00:01,306	
227331223344527	53622823	4239449	2615	00:00:02,615	
909326053603783	107245669	8478907	5228	00:00:05,228	
3637310700952739	214491379	16957841	10463	00:00:10,463	
1,45492519380387E+016	428982787	33915701	20891	00:00:20,891	
5,81970153180362E+016	857965597	67831409	41812	00:00:41,812	
2,32788077122514E+017	1715931197	135662827	83552	00:01:23,552	
9,31152408828042E+017	3431862397	271325683	166845	00:02:46,845	
3,72460968211177E+018	6863724817	542651371	332711	00:05:32,711	
1,48984391609505E+019	13727449691	1085302769	709348	00:11:49,348	
5,95937570462984E+019	27454899403	2170605551	1470535	00:24:30,535	
2,38375030391794E+020	54909798821	4341211141	2972001	00:49:32,001	
9,53500122957522E+020	109819597663	8682422293	5956400	01:39:16,400	
3,81400049575497E+021	219639195337	17364844603	11910957	03:18:30,957	
1,52560019914948E+022	439278390703	34729689223	23831055	06:37:11,055	
6,10240080078063E+022	878556781439	69459378491	47627596	13:13:47,596	
2,4409603205311E+023	1757113562947	138918756989	95144813	26:25:44,813	01:02:25:44,813
9,76384128233459E+023	3514227125957	277837513979	190135075	52:48:55,075	02:04:48:55,075
3,90553651324295E+024	7028454251977	555675027997	389571562	108:12:51,562	04:12:12:51,562
1,5622146053368E+025	14056908503969	1111350056021	760543506	211:15:43,506	08:19:15:43,506

Método Crivo Quadrático

Método Crivo Quadrático					
n	p	q	tempo (ms)	HH:MM:SS,000	DD:HH:MM:SS
866423017	8273	104729	5	00:00:00,005	
3465918073	16547	209459	4	00:00:00,004	
13869217547	418921	33107	88	00:00:00,088	
55483066187	66221	837847	99	00:00:00,099	
221977905893	1675697	132469	2536	00:00:02,536	
887955112631	3351419	264949	66147	00:01:06,147	
3552016422607	529927	6702841	8	00:00:00,008	
14208111206759	1059857	13405687	29	00:00:00,029	
56832582493517	2119717	26811401	328	00:00:00,328	
227331223344527	4239449	53622823	176	00:00:00,176	
909326053603783	8478907	107245669	27	00:00:00,027	
3637310700952739	214491379	16957841	431	00:00:00,431	
1,45492519380387E+016	428982787	33915701	472	00:00:00,472	
5,81970153180362E+016	857965597	67831409	44874	00:00:44,874	
2,32788077122514E+017	1715931197	135662827	1272	00:00:01,272	
9,31152408828042E+017	271325683	3431862397	212	00:00:00,212	
3,72460968211177E+018	542651371	6863724817	710	00:00:00,710	
1,48984391609505E+019	13727449691	1085302769	799	00:00:00,799	
5,95937570462984E+019	2170605551	27454899403	1597	00:00:01,597	
2,38375030391794E+020	4341211141	54909798821	359	00:00:00,359	
9,53500122957522E+020	109819597663	8682422293	855	00:00:00,855	
3,81400049575497E+021	219639195337	17364844603	11515	00:00:11,515	
1,52560019914948E+022	439278390703	34729689223	3689	00:00:03,689	
6,10240080078063E+022	69459378491	878556781439	11702	00:00:11,702	
2,4409603205311E+023	1757113562947	138918756989	9221	00:00:09,221	
9,76384128233459E+023	277837513979	3514227125957	9122	00:00:09,122	
3,90553651324295E+024	555675027997	7028454251977	37301	00:00:37,301	
1,5622146053368E+025	1111350056021	14056908503969	29588	00:00:29,588	
6,24885842137645E+025	2222700112049	28113817007981	62857	00:01:02,857	
2,49954336855568E+026	56227634015963	4445400224107	17848	00:00:17,848	
9,99817347425959E+026	112455268031999	8890800448241	135406	00:02:15,406	
3,99926938972464E+027	17781600896573	224910536064017	169298	00:02:49,298	

Método Crivo Quadrático

1,59970775589108E+028	449821072128037	35563201793173	127537	00:02:07,537	
6,39883102356484E+028	71126403586349	899642144256109	122199	00:02:02,199	
2,55953240942624E+029	142252807172713	1799284288512241	119634	00:01:59,634	
1,02381296377063E+030	3598568577024503	284505614345461	702670	00:11:42,670	
4,09525185508317E+030	569011228691011	7197137154049043	470673	00:07:50,673	
1,63810074203332E+031	1138022457382051	1,4394274308098E+16	319689	00:05:19,689	
6,55240296813329E+031	2,8788548616196E+16	2276044914764107	326914	00:05:26,914	
2,62096118725334E+032	4552089829528243	5,7577097232393E+16	771645	00:12:51,645	
1,04838447490134E+033	9,1041796590565E+15	1,1515419446479E+17	3978355	01:06:18,355	
4,19353789960538E+033	2,3030838892957E+17	1,8208359318113E+16	3561989	00:59:21,989	
1,67741515984215E+034	4,6061677785914E+17	3,6416718636226E+16	5495427	01:31:35,427	
6,70966063936861E+034	9,2123355571828E+17	7,2833437272453E+16	5726932	01:35:26,932	
2,68386425574744E+035	1,8424671114366E+18	1,4566687454491E+17	4291306	01:11:31,306	
1,07354570229898E+036	3,6849342228731E+18	2,9133374908981E+17	10293705	02:51:33,705	
4,29418280919591E+036	5,8266749817962E+17	7,3698684457463E+18	6122832	01:42:02,832	
1,71767312367836E+037	1,1653349963592E+18	1,4739736891493E+19	7293988	02:01:33,988	
6,87069249471346E+037	2,3306699927185E+18	2,9479473782985E+19	7255347	02:00:55,347	
2,74827699788538E+038	5,895894756597E+19	4,661339985437E+18	23189218	06:26:29,218	
1,09931079915415E+039	9,3226799708739E+18	1,1791789513194E+20	139622110	38:47:02,110	
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