

Zum Vergleich der benachbarten Erstdifferenzen mit Primzahlen:

<https://raw.githubusercontent.com/primegap-list-project/prime-gap-list/master/allgaps.sql>

<http://oeis.org/>

A000230 bzw. A002386 , A339944 , A339943 , A031133 , A144103

Erste 10 Primzahlen vor der jeweiligen Differenz-Summe von 20 Primzahl-Nachbarn (19 Luecken/gaps)

Beginn: 2 Ende: 2.1E+15

Differenz, Primzahl, Primzahl, Primzahl, Primzahl, Primzahl, Primzahl, Primzahl, Primzahl, Primzahl

69,	2									
70,	3									
74,	5									
76,	7									
78,	11									
80,	29,	3941119827895253385301920029,	14374153072440029138813893241,	17546231261175189855273591491,	38299233570943052294942174849,	39433867730216371575457664399,	40814702190384518551961455541,	58228410683159656922037124961,	69611500022230424427263424221,	97344384991448238094880899499
82,	31									
84,	13,	17,	19,	23						
90,	37,	41								
92,	47,	59								
94,	43									
96,	53,	61,	67,	71,	97,	101,	103			
98,	83									
100,	73,	79								
102,	89,	127,	131,	137,	139,	149,	179,	181,	191	
104,	107,	167,	173,	557						
106,	151,	163,	211,	2647						
108,	223,	359,	569,	190818931155793,	1345078917800533					
110,	227,	347,	353,	563,	2657,	19373,	19379,	2967317		
112,	331,	337,	349,	367,	379,	397,	541,	547,	571	
114,	109,	113,	193,	197,	199,	239,	269,	307,	373,	389
116,	233,	251,	257,	263,	383,	593,	1013,	2633,	2687,	763231787871587
118,	229,	241,	271,	991,	2659,	2683,	27733,	190818931155799,	319986099032773	
120,	277,	281,	311,	313,	401,	499,	599,	641,	977,	983
122,	317,	419,	521,	929,	941,	947,	971,	1181,	1409,	1427
124,	523,	739,	937,	967,	1399,	1429,	1447,	1543,	2269,	5407
126,	283,	293,	421,	431,	487,	491,	601,	607,	613,	617
128,	443,	449,	479,	503,	701,	809,	911,	1361,	1439,	1451
130,	433,	439,	457,	709,	727,	751,	811,	823,	853,	919
132,	461,	509,	619,	787,	797,	1019,	1021,	1031,	1531,	1567
134,	467,	653,	719,	743,	857,	953,	1163,	1523,	1997,	2027
136,	463,	691,	877,	1087,	1597,	1867,	1993,	2017,	2221,	2311
138,	659,	673,	769,	773,	839,	859,	881,	883,	1033,	1049
140,	683,	827,	1061,	1097,	1553,	1583,	1601,	1607,	1871,	2207
142,	829,	1039,	1051,	1579,	2719,	3529,	4861,	5431,	6211,	6217
144,	677,	887,	1217,	1223,	1229,	1609,	1657,	1873,	2549,	2713
146,	863,	1103,	1613,	1733,	2543,	3323,	3413,	3467,	3581,	3593
148,	661,	1069,	1663,	1741,	2539,	2551,	3181,	3319,	3469,	3571
150,	1063,	1109,	1231,	1277,	1279,	1283,	1289,	1783,	1847,	1877
152,	1301,	1637,	1721,	1901,	2069,	2129,	2351,	2531,	2819,	3167
154,	1129,	1297,	1693,	1723,	1747,	1753,	1759,	1777,	2053,	2749
156,	1123,	1291,	1303,	1667,	1907,	1913,	2081,	2083,	2087,	2131
158,	1619,	2111,	2153,	4019,	4073,	4391,	4409,	4493,	5591,	5693
160,	1117,	1249,	1327,	1627,	2113,	2179,	2371,	2797,	3637,	3643
162,	1237,	1319,	1321,	1621,	1669,	1709,	1787,	1789,	1831,	2089
164,	1259,	1307,	1307,	1823,	2039,	2357,	2393,	2837,	2897,	2903
166,	2143,	2383,	2803,	2833,	2857,	2917,	2953,	3373,	3823,	4231
168,	1699,	1811,	2099,	2503,	2843,	2851,	3061,	3331,	3343,	3359
170,	2909,	2939,	2999,	3089,	3137,	3347,	3677,	4157,	4253,	4337
172,	1801,	2161,	3019,	3037,	3049,	3739,	4057,	4549,	4801,	5479
174,	2963,	3079,	3083,	3733,	4339,	4373,	4793,	4813,	5059,	6607
176,	2417,	2861,	3011,	3041,	4463,	4817,	5021,	5147,	7193,	7817
178,	4159,	4243,	4759,	5011,	7069,	7369,	7639,	7993,	9043,	9049
180,	2399,	2411,	2437,	2441,	3001,	3023,	3119,	3121,	3947,	4021
182,	4259,	4721,	4751,	5231,	5237,	6581,	6977,	7127,	7607,	7829
184,	3067,	4027,	4273,	5233,	6577,	7717,	7723,	7927,	7933,	10303
186,	2423,	2447,	2473,	2477,	4261,	4297,	4691,	4703,	4723,	5023
188,	2459,	4673,	5039,	5849,	6449,	6473,	6491,	7109,	7349,	7901
190,	2467,	4729,	5107,	5113,	5119,	5209,	5449,	5857,	5923,	6469

192,	4289,	4679,	5851,	5861,	5939,	6329,	6337,	6389,	6427,	6481
194,	2969,	5897,	5927,	6359,	6983,	7019,	7043,	8369,	8387,	8429
196,	2971,	5197,	6991,	6997,	7321,	7333,	8377,	8431,	8467,	9907
198,	4733,	5189,	5903,	6353,	6373,	6379,	7013,	7309,	7949,	9479
200,	5867,	5879,	7211,	9839,	9941,	10631,	10739,	11621,	13241,	13337
202,	5179,	6361,	6367,	6397,	6451,	7879,	9949,	10399,	10867,	11587
204,	5869,	6343,	7213,	7283,	7883,	7963,	9929,	9833,	10733,	10909
206,	7001,	9887,	10391,	11177,	11483,	13421,	14867,	17093,	19013,	19553
208,	5881,	8293,	8329,	8389,	9871,	9883,	9931,	11593,	13999,	14869
210,	7951,	8311,	8317,	9851,	9857,	9859,	10357,	11447,	11467,	11471
212,	11519,	13187,	13457,	13469,	14009,	14207,	17669,	17627,	18869,	19469
214,	7219,	13183,	13339,	14197,	17107,	17623,	18583,	19087,	20533,	21163
216,	7243,	8297,	10343,	11503,	11527,	13463,	15817,	16231,	16673,	16763
218,	12671,	14033,	17099,	17609,	18701,	19583,	22283,	24413,	25343,	26993
220,	7237,	10369,	11497,	14029,	14149,	16651,	17683,	18859,	19477,	19489
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224,	16193,	16703,	18917,	22787,	23357,	23369,	24197,	24473,	24623,	24683
226,	13933,	18493,	18517,	18691,	18913,	24691,	26407,	27211,	27253,	28057
228,	7253,	11549,	11551,	13921,	14173,	16111,	18443,	18451,	18503,	18521
230,	7247,	13913,	14051,	14159,	14177,	16103,	23279,	23333,	24611,	27179
232,	14011,	14071,	18481,	18637,	19609,	23227,	27277,	29641,	29881,	30259
234,	14107,	14153,	15823,	18457,	18523,	18539,	18679,	18713,	18839,	20483
236,	14057,	18743,	23321,	24203,	27191,	27437,	31337,	31391,	33923,	37643
238,	17053,	18661,	18919,	20443,	23209,	23311,	24169,	24181,	24439,	24571
240,	14081,	14083,	14087,	18461,	18553,	18671,	18719,	18773,	23291,	24133
242,	18617,	18731,	23297,	24137,	28151,	31271,	31817,	31817,	37589,	37619
244,	18787,	18793,	23293,	26437,	28879,	31267,	34807,	35509,	35527,	37663
246,	18541,	18593,	24113,	24517,	24547,	27281,	27283,	27487,	28031,	29587
248,	24251,	24533,	24551,	35591,	37061,	38321,	43013,	45893,	46769,	52313
250,	24121,	24421,	29761,	31393,	31723,	33967,	37057,	37717,	38317,	43177
252,	18749,	18757,	31397,	33889,	33961,	43019,	43151,	43159,	43189,	43291
254,	18797,	27107,	31727,	33893,	40253,	43067,	44279,	46889,	57413,	62327
256,	37591,	37897,	38287,	40177,	40231,	40237,	44281,	44281,	54037,	57301
258,	27109,	31699,	31751,	31769,	31771,	31793,	31799,	33871,	35593,	38299
260,	34763,	37691,	37889,	37907,	38351,	40169,	43313,	43331,	44987,	46877
262,	31729,	31741,	35569,	35617,	38377,	43051,	44221,	46861,	46867,	52267
264,	27143,	28123,	33863,	35573,	37693,	37699,	40163,	43669,	46829,	50593
266,	18803,	33857,	35531,	35537,	35543,	35597,	35603,	38327,	43133,	46853
268,	35461,	35533,	46819,	50599,	54001,	55351,	60343,	61681,	62191,	63031
270,	27127,	33941,	40153,	40189,	40213,	46771,	50551,	58631,	59729,	59743
272,	60317,	64319,	66089,	66191,	68099,	72341,	73037,	86579,	88241,	88499
274,	38329,	54013,	60937,	61687,	64279,	64327,	66109,	69403,	78193,	82903
276,	38333,	59753,	61007,	64301,	64303,	64333,	66067,	66071,	66083,	66173
278,	40193,	60953,	66179,	68111,	68171,	73013,	73091,	85733,	87959,	88379
280,	43117,	46831,	59809,	60943,	69457,	73141,	85711,	85831,	87931,	87943
282,	61051,	61057,	85717,	88327,	93529,	93629,	97931,	97987,	102701,	103669
284,	58613,	64283,	73019,	73079,	73133,	85847,	85853,	87977,	93503,	97967
286,	58603,	59791,	59797,	68113,	68161,	69481,	87973,	88261,	88321,	93523
288,	43103,	61043,	62989,	63863,	69491,	73039,	73043,	98009,	98011,	102679
290,	66047,	69473,	69539,	73061,	82913,	88301,	91463,	110069,	121661,	126743
292,	60961,	88177,	93601,	112621,	119299,	120247,	121591,	126739,	130681,	145069
294,	69467,	86629,	88169,	93557,	93557,	112363,	114277,	114299,	124799,	126757
296,	68141,	68147,	114281,	119237,	119321,	126827,	127877,	158777,	164837,	165887
298,	73063,	87991,	88129,	107209,	119191,	147793,	147853,	153589,	155821,	161923
300,	88001,	88289,	98017,	103087,	103091,	103093,	103099,	112601,	119311,	121609
302,	88037,	113381,	113417,	177539,	215531,	216179,	219977,	230969,	232109,	232937
304,	107137,	121633,	126859,	164743,	174907,	180907,	186343,	186763,	189997,	194377
306,	88117,	88337,	112603,	119243,	130651,	134371,	152953,	162053,	173293,	174533
308,	93581,	107339,	109961,	110129,	143831,	153533,	162143,	180563,	180731,	180773
310,	88069,	130699,	142237,	152959,	156157,	162109,	164677,	175039,	177481,	177487
312,	88339,	93559,	107309,	110119,	121637,	130657,	142217,	142231,	162079,	164729
314,	109937,	138959,	142223,	153557,	153563,	165833,	174989,	177473,	180569,	182933
316,	69493,	164683,	198997,	212461,	214807,	214867,	250423,	254053,	260023,	260047
318,	88003,	88019,	88079,	88093,	107323,	109903,	109919,	109943,	126761,	138923
320,	88007,	107243,	109913,	138977,	147827,	155921,	156269,	162119,	173297,	175309
322,	107377,	162091,	164839,	187927,	187951,	205627,	212479,	214831,	217747,	227629
324,	69497,	93563,	107347,	138967,	147799,	175003,	175067,	175069,	175079,	194267
326,	162017,	180623,	212501,	214817,	214853,	214913,	227651,	261101,	274283,	274301
328,	69499,	143833,	147811,	177433,	180871,	206551,	235111,	252919,	254413,	261643
330,	107251,	107269,	107273,	107279,	138937,	155887,	162059,	164707,	175081,	175103
332,	174929,	174959,	237287,	273281,	274361,	287867,	326147,	355109,	370067,	387281

334,	113383,	174943,	194149,	237373,	273283,	286753,	295417,	307669,	307759,	339223
336,	107351,	107357,	110083,	155891,	155893,	174931,	180667,	227653,	237401,	252937
338,	194141,	194309,	283181,	287333,	293261,	295439,	345041,	350033,	359753,	369491
340,	180679,	194167,	194203,	194269,	237361,	237409,	254389,	268063,	273289,	287341
342,	194179,	227671,	250109,	254281,	283121,	283159,	287327,	287347,	339247,	356591
344,	180797,	287387,	326219,	339173,	339239,	339257,	355139,	359837,	360293,	369407
346,	180847,	268291,	268297,	287437,	295441,	355111,	359641,	371491,	404497,	406807
348,	237343,	250153,	250361,	254299,	268153,	273349,	283163,	293269,	307693,	307733
350,	227699,	250091,	252971,	273359,	283139,	285983,	326153,	339263,	356579,	359657
352,	194119,	250147,	273367,	345109,	369469,	371479,	452701,	461689,	492061,	502861
354,	180647,	227707,	237379,	250049,	253013,	283133,	286043,	286103,	287393,	406837
356,	370673,	448451,	484703,	502841,	511997,	537191,	537281,	539723,	539783,	557087
358,	180799,	227719,	237331,	250051,	252949,	253003,	283183,	326203,	404461,	412651
360,	227743,	237313,	250073,	250343,	268133,	283193,	286061,	295459,	326189,	356567
362,	283211,	286049,	345089,	360461,	406817,	413267,	448199,	448379,	461717,	477077
364,	237319,	252979,	268123,	283207,	286063,	345067,	360457,	370663,	412663,	416593
366,	250057,	250123,	250253,	252983,	345047,	406717,	406811,	412667,	416623,	430121
368,	227729,	268091,	286001,	326171,	369293,	416579,	459671,	523049,	544031,	595571
370,	268069,	285997,	459703,	477091,	512137,	595579,	650107,	655693,	668047,	674299
372,	180811,	286009,	369301,	459691,	514859,	523031,	524429,	537197,	539729,	544279
374,	250169,	286019,	360407,	369263,	369419,	459677,	461693,	492113,	512147,	514853
376,	369283,	524413,	539743,	730021,	750223,	829237,	871177,	910201,	910207,	946993
378,	326159,	360439,	362473,	369269,	369331,	369353,	369361,	370679,	370693,	416629
380,	286073,	448421,	492083,	512009,	561551,	593711,	672377,	682739,	682763,	698543
382,	360421,	369409,	370687,	413299,	448387,	698557,	714061,	756727,	783799,	783829
384,	250199,	250259,	369319,	404597,	514939,	668159,	715999,	736403,	736409,	743363
386,	250301,	250307,	359783,	484613,	668153,	716003,	863123,	863153,	872687,	944963
388,	360391,	522961,	561559,	668179,	668221,	672379,	673669,	736429,	743269,	828169
390,	406729,	448207,	484639,	514889,	514903,	514967,	561553,	655723,	668209,	682811
392,	655727,	668141,	698591,	743279,	743297,	743339,	818429,	828131,	841457,	866231
394,	561367,	561373,	561529,	672349,	806389,	863143,	913723,	935719,	944899,	1098709
396,	448397,	512047,	561521,	705293,	743273,	850453,	850457,	863197,	899263,	1012831
398,	406739,	484643,	736469,	828239,	850481,	899273,	899273,	1031753,	1061969,	1122683
400,	359767,	484621,	561409,	561439,	736447,	736471,	743377,	841459,	877423,	910219
402,	250279,	359761,	512101,	514949,	736441,	871061,	913579,	913811,	944929,	956387
404,	512093,	863087,	1356947,	1467863,	1530107,	1544537,	1578323,	1586939,	1637093,	1638269
406,	250267,	705307,	818413,	877411,	913447,	913483,	1062001,	1098673,	1119121,	1122721
408,	512011,	512021,	512059,	561389,	913513,	913753,	956393,	1031813,	1060529,	1060573
410,	561377,	561419,	698567,	913589,	1078247,	1137953,	1145897,	1235987,	1403957,	1403981
412,	682819,	871027,	1060621,	1098541,	1122739,	1224439,	1334797,	1467751,	1557667,	1578289
414,	404527,	818399,	828133,	1119109,	1137977,	1145849,	1207489,	1207519,	1298357,	1327369
416,	913457,	979553,	1215923,	1327373,	1467773,	1551203,	1638167,	1856441,	1882607,	1900937
418,	913771,	1031869,	1215919,	1356919,	1391779,	1438291,	1438303,	1439791,	1586971,	1586989
420,	404531,	404557,	668051,	668111,	705317,	913487,	956429,	979567,	1235999,	1334747
422,	871037,	1031837,	1236017,	1245191,	1327409,	1357001,	1562411,	1664009,	1683749,	1771559
424,	668089,	1145899,	1207537,	1349473,	1357003,	1357039,	1467787,	1561639,	1561657,	1638127
426,	360323,	404533,	1357193,	1551167,	1562591,	1562593,	1636931,	1638121,	1664021,	1683637
428,	1207529,	1334771,	1882589,	2249483,	2321393,	2345969,	2349371,	2478743,	2478761,	2478803
430,	404539,	1391713,	1439773,	1562611,	1636951,	1637029,	1664071,	2024599,	2055709,	2314153
432,	360337,	956399,	1031759,	1031761,	1061911,	1061917,	1122749,	1122757,	1349251,	1357021
434,	668093,	1391669,	1391729,	1562513,	1636937,	1663973,	1664123,	2296187,	2355539,	2401673
436,	1207447,	1683733,	1882561,	2090791,	2401603,	2401741,	2527477,	2719747,	2719753,	2966083
438,	1320421,	1349233,	1391651,	1448221,	1587011,	1638211,	1803691,	1803761,	2321443,	2355533
440,	668069,	1562447,	1636997,	1856333,	2090771,	2296247,	2355443,	2355629,	2539631,	2662211
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 2160, 781211428908923, 1977071093432989, 2045062086669967  
 2166, 1892615121312571  
 2186, 1648870450308383  
 2190, 922842742098227, 1359336968827471  
 2204, 1977071093432843  
 2246, 2045062086669977  
 2248, 2045062086670039

Die kleinste, der grösseren, hier nicht gefundenen Differenz-Summe lautet: 2088

Anzahl der oben aufgelisteten Primzahldifferenzen

- 1-stellig, Anzahl 4
- 2-stellig, Anzahl 21
- 3-stellig, Anzahl 131
- 4-stellig, Anzahl 371
- 5-stellig, Anzahl 448
- 6-stellig, Anzahl 575
- 7-stellig, Anzahl 577
- 8-stellig, Anzahl 724
- 9-stellig, Anzahl 768
- 10-stellig, Anzahl 810
- 11-stellig, Anzahl 861
- 12-stellig, Anzahl 984

13-stellig, Anzahl 980  
14-stellig, Anzahl 1129  
15-stellig, Anzahl 1145  
16-stellig, Anzahl 371 bis 2.1E+15

Differenz-Summe D, Primzahl P, Minimum relativ =  $D/\ln(P+D)/19$

9+18+18+24=69, 2, 0.85195  
20+30+34+20=104, 557, 0.84292  
18+48+22+26=114, 1213, 0.83441  
20+46+24+32=122, 2267, 0.82547  
30+42+26+24=122, 2591, 0.81219  
38+30+22+30=120, 2609, 0.79829  
40+26+24+24=114, 2617, 0.7583  
24+22+26+34=106, 2647, 0.70437  
22+38+24+30=114, 7477, 0.67154  
18+36+30+26=110, 19373, 0.58614  
24+26+34+26=110, 19379, 0.58612  
38+42+28+18=126, 113051, 0.56988  
30+50+18+28=126, 113063, 0.56988  
20+36+42+28=126, 115751, 0.56873  
20+34+42+26=122, 115757, 0.55068  
18+42+36+24=120, 115763, 0.54165  
20+40+36+24=120, 344153, 0.49539  
26+34+42+20=122, 783677, 0.47311  
18+36+38+22=114, 783689, 0.44209  
20+24+36+30=110, 2967317, 0.38847  
28+32+30+42=132, 79543951, 0.3819  
30+36+32+34=132, 126977801, 0.37232  
24+52+26+30=132, 179028667, 0.36559  
24+42+24+42=132, 365431667, 0.35236  
28+56+24+28=136, 807213853, 0.34901  
14+58+30+30=132, 880082237, 0.33732  
30+48+20+30=128, 925594379, 0.3263  
42+30+26+24=122, 925594391, 0.31101  
24+28+30+44=126, 2466269107, 0.30665  
36+28+42+30=136, 16157002597, 0.30452  
22+24+38+46=130, 20548113097, 0.28814  
20+34+38+28=120, 31311431897, 0.26134  
18+28+60+24=130, 378592548661, 0.25665  
26+30+46+30=132, 647890828121, 0.25545  
18+32+58+26=134, 1036950275159, 0.25491  
30+30+28+44=132, 1054694671669, 0.25095  
30+30+42+30=132, 1085806111021, 0.25069  
26+40+30+30=126, 1085806111031, 0.23929  
32+40+30+24=126, 2037404713397, 0.23398  
24+40+26+34=124, 2037404713417, 0.23026  
24+36+34+32=126, 9065096485717, 0.22227  
26+40+26+34=126, 9065096485721, 0.22227  
24+20+42+40=126, 11506302682517, 0.22051  
30+22+20+52=124, 12367718876017, 0.21649  
30+24+34+36=124, 19590494530543, 0.21324  
56+22+24+20=122, 23171908479581, 0.20865  
24+32+30+28=114, 31205162901797, 0.1931  
22+48+24+20=114, 116414233548859, 0.18525  
28+36+26+18=108, 190818931155793, 0.17287  
18+30+28+32=108, 1345078917800533, 0.16317

05.12.2024 Richard Fischer