

Computation of the Bernoulli ratios using the pari calculation of the first born.
 Bold figures indicate where the Bacher forecast failed.

Table of Bacher forecasts: New Index = $(p-1)/2 * p$ + first born index

A(n) index	n	First born Primes	k for n = $((2k+1)p+1)/(p-1)/2 * p$	Bacher $(p-1)/2 * p$	Actual Irr Primes	Comments on Actuals
1	574	37	15	666	37	
4	1269	59	21	1711	59	
7	1910	67	28	2211	67	
12	3384	101	33	5050	101	
2	1185	103	11	5253	103	
5	1376	131	10	8515	131	
35	9611	149	64	11026	149	
18	4789	157	30	12246	157	twin first born
32	8557	157	54	12246		
36	9670	233	41	27028	233	
tc	20946	257	81	32896	257	found
50	13019	263	49	34453	263	
44	11247	271	41	36585	271	
9	2689	283	9	39903	283	
tc	22708	293	77	42778	293	found
53	13355	307	43	46971	307	
tc	45251	311	145	48205	311	found
74	18761	379	49	71631	347	not found
57	14714	577	25	166176	353	not found
22	6227	593	10	175528	379	found
20	5862	617	9	190036	389	not found
61	15346	653	23	212878	401	not found
41	10587	683	15	232903	409	not found
13	3801	691	5	238395	421	not found
					433	not found
					461	not found

Copy	I5 - DE28	and paste special to	I37	0	1	2	3	4	5
574	1240	1906	2572	3238	3904				
1269	2980	4691	6402	8113	9824				
1910	4121	6332	8543	10754	12965				
3384	8434	13484	18534	23584	28634				
1185	6438	11691	16944	22197	27450				
1376	9891	18406	26921	35436	43951				
9611	20637	31663	42689	53715	64741				
4789	17035	29281	41527	53773	66019				
8557	20803	33049	45295	57541	69787				
9670	36698	63726	90754	117782	144810				
20946	53842	86738	119634	152530	185426				
13019	47472	81925	116378	150831	185284				
11247	47832	84417	121002	157587	194172				
2689	42592	82495	122398	162301	202204				
22708	65486	108264	151042	193820	236598				
13355	60326	107297	154268	201239	248210				
45251	93456	141661	189866	238071	286276				
18761	90392	162023	233654	305285	376916				
14714	180890	347066	513242	679418	845594				
6227	181755	357283	532811	708339	883867				
5862	195898	385934	575970	766006	956042				
15346	228224	441102	653980	866858	1079736				
10587	243490	476393	709296	942199	1175102				
3801	242196	480591	718986	957381	1195776				

n of A(n) n Irr Prime Conjecture Prime Last Sort Factors

Copy spec val here Cut first col to col E same row repeat Ctrl-q to end of data

1	574	37	15	37	574 2, 7, 41		
2	1185	103	11	103	1185 3,5, 79		
3	1240	37	33	37	1240 2,2,2,5, 31		
4	1269	59	21	59	1269 3,3,3, 47		
5	1376	131	10	131	1376 2,2,2,2,2, 43		
6	1906	37	51	37	1906 2, 953		
7	1910	67	28	67	1910 2,5, 191		
8	2572	37	69	37	2572 2,2, 643		
9	2689	283	9	283	2689 2689		
10	2980	59	50	59	2980 2,2,5, 149		
11	3238	37	87	37	3238 2, 1619		
12	3384	101	33	101	3384 2,2,2,3,3, 47		
13	3801	691	5	691	3801 3, 7, 181		
14	3904	37	105	37	3904 2,2,2,2,2,2, 61		
15	4121	67	61	67	4121 13, 317		
16	4570	37	123	37	4570 2,5, 457		
17	4691	59	79	59	4691 4691		
18	4789	157	30	157	4789 4789		
19	5236	37	141	37	5236 2,2, 7, 11, 17		
20	5862	617	9	617	5862 2,3, 977		
21	5902	37	159	37	5902 2, 13, 227		
22	6227	593	10	593	6227 13, 479		
23	6332	67	94	67	6332 2,2, 1583		
24	6402	59	108	59	6402 2,3, 11, 97		
25	6438	103	62	103	6438 2,3, 29, 37		
26	6568	37	177	37	6568 2,2,2, 821		
27	7234	37	195	37	7234 2, 3617		
28	7900	37	213	37	7900 2,2,5,5, 79		
29	8113	59	137	59	8113 7, 19, 61		
30	8434	101	83	101	8434 2, 4217		
31	8543	67	127	67	8543 8543		
32	8557	157	54	157	8557 43, 199	failed fb	37,59,67,101,103,131,149,157,233,257,263,271,283,293,307,
33	8566	37	231	37	8566 2, 4283		
34	9232	37	249	37	9232 2,2,2,2, 577		
35	9611	149	64	149	9611 7, 1373		
36	9670	233	41	233	9670 2,5, 967		

37	9824	59	166	59	9824 2,2,2,2,2, 307		
38	9891	131	75	131	9891 3,3, 7, 157		
39	9898	37	267	37	9898 2, 7, 7, 101		
40	10564	37	285	37	10564 2,2, 19, 139	some irregular primes	
41	10587	683	15	683	10587 3, 3529	failed fb	683,691,727,751,757,761,773,797,809,811,821,827,839,871
42	10754	67	160	67	10754 2, 19, 283		311,347,353,379,389,401,409,421,433,461,463,467,491,521
43	11230	37	303	37	11230 2,5, 1123		547,557,577,587,593,607,613,617,619,631,647,653,659,671
44	11247	271	41	271	11247 3, 23, 163	failed fb	59
45	11535	59	195	59	11535 3,5, 769		
46	11691	103	113	103	11691 3,3,3, 433		
47	11896	37	321	37	11896 2,2,2, 1487		Pari
48	12562	37	339	37	12562 2, 11, 571	irreg prime	irprime(m) =
49	12965	67	193	67	12965 5, 2593		37 {
50	13019	263	49	263	13019 47, 277	failed fb	59 while((k+k)<=p-3 && numerator(bernfrac(k+k))%
51	13228	37	357	37	13228 2,2, 3307		67 p=prime(n);
52	13246	59	224	59	13246 2, 37, 179		101 k=1;
53	13355	307	43	307	13355 5, 2671	failed nfb	103
54	13484	101	133	101	13484 2,2, 3371		131 if((k+k) <> p-1,print1(p","))
55	13894	37	375	37	13894 2, 6947		149)
56	14560	37	393	37	14560 2,2,2,2,2,5, 7, 13		157 }
57	14714	577	25	577	14714 2, 7, 1051		233
58	14957	59	253	59	14957 14957		257
59	15176	67	226	67	15176 2,2,2, 7, 271		263
60	15226	37	411	37	15226 2, 23, 331		271
61	15346	653	23	653	15346 2, 7673		283
62	15892	37	429	37	15892 2,2, 29, 137		293
63	16558	37	447	37	16558 2, 17, 487		307
64	16668	59	282	59	16668 2,2,3,3, 463		311
65	16944	103	164	103	16944 2,2,2,2,3, 353		347
66	17035	157	108	157	17035 5, 3407		353
67	17224	37	465	37	17224 2,2,2, 2153		379
68	17387	67	259	67	17387 17387		389
69	17890	37	483	37	17890 2,5, 1789		401
70	18379	59	311	59	18379 18379		409
71	18406	131	140	131	18406 2, 9203		421
72	18534	101	183	101	18534 2,3, 3089		433

73	18556	37	501	37	18556 2,2, 4639	461
74	18761	379	49	379	18761 73, 257	463
75	19222	37	519	37	19222 2, 7, 1373	467
76	19598	67	292	67	19598 2, 41, 239	491
77	19888	37	537	37	19888 2,2,2,2, 11, 113	523
78	20090	59	340	59	20090 2,5, 7, 7, 41	541
79				37	20554 2, 43, 239	547
				149	20637 3,3, 2293	557
	20946	257	81	157	20803 71, 293	577
				257	20946 2,3, 3491	587
				37	21220 2,2,5, 1061	593
				59	21801 3, 13, 13, 43	607
				67	21809 113, 193	613
				37	21886 2, 31, 353	617
				103	22197 3, 7, 7, 151	619
	22.708	293	77	37	22552 2,2,2, 2819	631
				293	22708 2,2, 7, 811	647
				37	23218 2, 13, 19, 47	653
				59	23512 2,2,2, 2939	659
				101	23584 2,2,2,2,2, 11, 67	673
				37	23884 2,2, 7, 853	677
				67	24020 2,2,5, 1201	683
				37	24550 2,5,5, 491	691
				37	25216 2,2,2,2,2,2, 197	727
				59	25223 11, 2293	751
				37	25882 2, 12941	757
				67	26231 17, 1543	761
				37	26548 2,2, 6637	773
				131	26921 26921	797
				59	26934 2,3, 67, 67	809
				37	27214 2, 11, 1237	811
				103	27450 2,3,3,5,5, 61	821
				37	27880 2,2,2,5, 17, 41	827
				67	28442 2, 14221	839
				37	28546 2, 7, 2039	877
				101	28634 2, 103, 139	881

59	28645 5, 17, 337	887
37	29212 2,2, 67, 109	929
157	29281 7, 47, 89	953
37	29878 2, 14939	971
59	30356 2,2, 7589	1061
37	30544 2,2,2,2, 23, 83	1091
67	30653 7, 29, 151	1117
37	31210 2,5, 3121	1129
149	31663 31663	1151
37	31876 2,2, 13, 613	1153
59	32067 3,3, 7, 509	1193
37	32542 2, 53, 307	1201
103	32703 3, 11, 991	1217
67	32864 2,2,2,2,2, 13, 79	
157	33049 33049	
37	33208 2,2,2, 7, 593	
101	33684 2,2,3, 7, 401	
59	33778 2, 16889	
37	33874 2, 16937	
67	35075 5,5, 23, 61	
131	35436 2,2,3, 2953	
59	35489 23, 1543	
233	36698 2, 59, 311	
59	37200 2,2,2,2,3,5,5, 31	
67	37286 2, 103, 181	
103	37956 2,2,3, 3163	
101	38734 2, 107, 181	
59	38911 167, 233	
67	39497 127, 311	
59	40622 2, 19, 1069	
157	41527 131, 317	
67	41708 2,2, 10427	
59	42333 3, 103, 137	
283	42592 2,2,2,2,2, 11, 11, 11	
149	42689 42689	
103	43209 3,3, 4801	
101	43784 2,2,2, 13, 421	
67	43919 37, 1187	
131	43951 43951	
59	44044 2,2, 7, 11, 11, 13	

311 **45251** 37, 1223
157 45295 5, 9059
59 45755 5, 9151
67 46130 2,5, 7, 659
59 47466 2,3,3,3,3, 293
263 47472 2,2,2,2,3, 23, 43
271 47832 2,2,2,3, 1993
67 48341 48341
103 48462 2,3, 41, 197
101 48834 2,3,3, 2713
59 49177 49177
67 50552 2,2,2, 71, 89
59 50888 2,2,2, 6361
131 52466 2, 37, 709
59 52599 3, 89, 197
67 52763 19, 2777
149 53715 3,5, 3581
103 53715 3,5, 3581
157 53773 53773
257 53842 2, 26921
101 53884 2,2, 19, 709
59 54310 2,5, 5431
67 54974 2, 27487
59 56021 7, 53, 151
67 57185 5, 11437
157 57541 11, 5231
59 57732 2,2,3, 17, 283
101 58934 2, 79, 373
103 58968 2,2,2,3,3,3,3, 7, 13
67 59396 2,2, 31, 479
59 59443 59443
307 60326 2, 7, 31, 139
131 60981 3, 20327
59 61154 2, 30577
67 61607 7, 13, 677
59 62865 3,3,5, 11, 127
233 63726 2,3, 13, 19, 43
67 63818 2, 17, 1877
101 63984 2,2,2,2,3, 31, 43
103 64221 3, 21407

59 64576 2,2,2,2,2, 1009
149 64741 101, 641
293 65486 2, 137, 239
157 66019 107, 617
67 66029 66029
59 66287 13, 5099
59 67998 2,3, 7, 1619
67 68240 2,2,2,2,5, 853
101 69034 2, 7, 4931
103 69474 2,3, 11579
131 69496 2,2,2, 7, 17, 73
59 69709 69709
157 69787 19, 3673
67 70451 70451
59 71420 2,2,5, 3571
67 72662 2, 47, 773
59 73131 3, 19, 1283
101 74084 2,2, 18521
103 74727 3,3, 19, 19, 23
59 74842 2, 23, 1627
67 74873 74873
149 75767 75767
59 76553 37, 2069
67 77084 2,2, 7, 2753
131 78011 181, 431
59 78264 2,2,2,3,3, 1087
157 78265 5, 11, 1423
101 79134 2,3, 11, 11, 109
67 79295 5, 15859
59 79975 5,5, 7, 457
103 79980 2,2,3,5, 31, 43
67 81506 2, 83, 491
59 81686 2, 11, 47, 79
263 81925 5,5, 29, 113
157 82033 7, 11719
283 82495 5, 7, 2357
59 83397 3, 27799
67 83717 83717
101 84184 2,2,2, 17, 619
271 84417 3, 19, 1481

59 85108 2,2, 21277
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131 86526 2,3,3, 11, 19, 23
257 86738 2, 31, 1399
149 86793 3, 7, 4133
59 86819 17, 5107
67 88139 53, 1663
101 89234 2, 44617
67 90350 2,5,5, 13, 139
379 90392 2,2,2, 11299
103 90486 2,3,3, 11, 457
157 90511 90511
233 90754 2, 45377
67 92561 7, 7, 1889
311 93456 2,2,2,2,3,3, 11, 59
157 94279 29, 3251
101 94284 2,2,3,3,3,3,3, 97
67 94772 2,2, 19, 29, 43
131 95041 101, 941
103 95739 3, 7, 47, 97
67 96983 293, 331
149 97819 23, 4253
67 99194 2, 49597
101 99334 2, 49667
103 100992 2,2,2,2,2,2,3, 263
67 101405 5, 17, 1193
157 102757 211, 487
131 103556 2,2, 25889
67 103616 2,2,2,2,2,2, 1619
101 104384 2,2,2,2,2,2, 7, 233
67 105827 97, 1091
103 106245 3,3,3,5, 787
157 106525 5,5, 4261
307 107297 41, 2617
67 108038 2, 7, 7717
293 108264 2,2,2,3, 13, 347
149 108845 5, 11, 1979
101 109434 2,3, 13, 23, 61
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67 112460 2,2,5, 5623
101 114484 2,2, 28621
157 115003 7, 7, 2347
263 116378 2, 58189
103 116751 3, 38917
233 117782 2, 7, 47, 179
157 118771 73, 1627
101 119534 2, 59, 1013
257 119634 2,3, 127, 157
149 119871 3,3, 19, 701
131 120586 2, 60293
271 121002 2,3, 7, 43, 67
103 122004 2,2,3,3, 3389
283 122398 2, 19, 3221
101 124584 2,2,2,3, 29, 179
157 127249 127249
103 127257 3, 13, 13, 251
131 129101 7, 18443
101 129634 2, 64817
149 130897 13, 10069
157 131017 37, 3541
103 132510 2,3,5, 7, 631
101 134684 2,2, 11, 3061
131 137616 2,2,2,2,3, 47, 61
103 137763 3,3, 15307
157 139495 5, 23, 1213
101 139734 2,3,3, 7, 1109
311 141661 13, 17, 641
149 141923 347, 409
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157 143263 143263
101 144784 2,2,2,2, 9049
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131 146131 29, 5039
103 148269 3, 11, 4493
101 149834 2, 19, 3943
263 150831 3,3, 16759
293 151042 2, 75521

157 151741 41, 3701
257 152530 2,5, 7, 2179
149 152949 3, 17, 2999
103 153522 2,3,3,3, 2843
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131 154646 2, 77323
101 154884 2,2,3, 12907
157 155509 155509
271 157587 3, 52529
103 158775 3,5,5, 29, 73
101 159934 2, 79967
379 162023 29, 37, 151
283 162301 109, 1489
131 163161 3,3,3, 6043
149 163975 5,5, 7, 937
157 163987 163987
103 164028 2,2,3, 13669
101 164984 2,2,2, 41, 503
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103 169281 3,3, 7, 2687
101 170034 2,3, 17, 1667
131 171676 2,2, 167, 257
233 171838 2, 151, 569
103 174534 2,3, 19, 1531
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157 176233 29, 59, 103
103 179787 3, 59929
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577 180890 2,5, 18089
593 181755 3,3,5, 7, 577
103 185040 2,2,2,2,3,3,5, 257
101 185184 2,2,2,2,2,3,3, 643
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257 185426 2, 23, 29, 139
149 186027 3, 59, 1051
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131 188706 2,3, 7, 4493

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617 195898 2, 41, 2389
149 197053 193, 1021
131 197221 197221
233 198866 2, 17, 5849
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157 200725 5,5, 7, 31, 37
103 200799 3,3,3,3, 37, 67
307 201239 61, 3299
283 202204 2,2, 50551
157 204493 17, 23, 523
101 205384 2,2,2, 25673
131 205736 2,2,2, 25717
103 206052 2,2,3, 7, 11, 223
149 208079 251, 829
101 210434 2, 7, 15031
103 211305 3,5, 14087
157 212971 11, 19, 1019
131 214251 3, 17, 4201
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103 216558 2,3,3, 53, 227
157 216739 193, 1123
257 218322 2,3,3,3, 13, 311
149 219105 3,3,3,3,5, 541
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101 220534 2, 31, 3557
103 221811 3, 107, 691
131 222766 2, 31, 3593
157 225217 225217
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233 225894 2,3, 37649
103 227064 2,2,2,3, 9461
653 228224 2,2,2,2,2,2, 1783

157 228985 5, 41, 1117
149 230131 11, 20921
101 230634 2,3,3,3, 4271
271 230757 3, 76919
131 231281 41, 5641
103 232317 3,3, 83, 311
379 233654 2, 116827
101 235684 2,2, 58921
293 236598 2,3, 47, 839
157 237463 83, 2861
103 237570 2,3,5, 7919
311 238071 3, 79357
131 239796 2,2,3,3, 6661
101 240734 2, 13, 47, 197
149 241157 7, 47, 733
157 241231 149, 1619
283 242107 239, 1013
691 242196 2,2,3, 20183
103 242823 3, 7, 31, 373
683 243490 2,5, 13, 1873
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307 248210 2,5, 24821
131 248311 7, 19, 1867
157 249709 67, 3727
101 250834 2, 167, 751
257 251218 2, 11, 19, 601
149 252183 3, 84061
233 252922 2, 126461
103 253329 3, 84443
157 253477 7, 7, 7, 739
263 254190 2,3,5, 37, 229
101 255884 2,2, 17, 53, 71
131 256826 2, 128413
103 258582 2,3, 71, 607
157 261955 5, 52391
149 263209 263209
103 263835 3,3,5, 11, 13, 41
131 265341 3, 241, 367
157 265723 467, 569

271 267342 2,3, 17, 2621
131 273856 2,2,2,2,2,2, 11, 389
157 274201 274201
149 274235 5, 13, 4219
157 277969 233, 1193
293 279376 2,2,2,2, 19, 919
233 279950 2,5,5, 11, 509
283 282010 2,5, 28201
131 282371 23, 12277
257 284114 2, 142057
149 285261 3, 95087
311 286276 2,2, 71569
157 286447 7, 151, 271
263 288643 17, 16979
157 290215 5, 58043
131 290886 2,3, 48481
307 295181 229, 1289
149 296287 296287
157 298693 298693
131 299401 299401
157 302461 19, 15919
271 303927 3, 13, 7793
379 305285 5, 61057
233 306978 2,3, 7, 7309
149 307313 29, 10597
131 307916 2,2, 7, 7, 1571
157 310939 239, 1301
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149 318339 3,3, 7, 31, 163
283 321913 89, 3617
293 322154 2, 7, 23011
263 323096 2,2,2, 40387
157 323185 5, 109, 593
131 324946 2, 162473
157 326953 11, 29723
149 329365 5, 19, 3467
131 333461 139, 2399
233 334006 2, 23, 53, 137

311 334481 7, 71, 673
157 335431 509, 659
157 339199 7, 47, 1031
149 340391 17, 20023
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131 341976 2,2,2,3, 14249
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577 347066 2, 97, 1789
157 347677 11, 31607
257 349906 2, 53, 3301
131 350491 463, 757
149 351417 3, 11, 23, 463
157 351445 5, 70289
593 357283 357283
263 357549 3, 119183
131 359006 2, 17, 10559
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