

ON THE INTERVAL $[n, 9(n+3)/8]$

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ABSTRACT. In this paper we prove that the interval $[n, 9(n+3)/8]$ contains at least one prime number for every positive integer n . In order to achieve our goal, we use a result by Pierre Dusart and we also do manual calculations.

1. INTRODUCTION

In some of his web articles (available at <http://www.matematicainsolita.8m.com>), Carlos Giraldo Ospina (Lic. Matemáticas, USC, Cali, Colombia) uses a so-called *Breusch's interval* to propose proofs of some specific conjectures. This author assumes that Breusch's interval $[n, 9(n+3)/8]$ contains at least one prime number for every positive integer n . The purpose of this work is to provide a clear proof that this is true.

2. DUSART'S INTERVAL

Definition 1. In 1998, Pierre Dusart [1] proved that for every $n \geq 3275$ there is at least one prime number in the interval

$$\left[n, \left(1 + \frac{1}{2 \ln^2 n} \right) n \right],$$

where \ln denotes the *natural logarithm*. The mentioned interval will be referred to as *Dusart's interval*.

Since $\ln^2 n = (\ln n)^2$, it follows that Dusart's interval can also be expressed as

$$\left[n, \left(1 + \frac{1}{2(\ln n)^2} \right) n \right].$$

3. BREUSCH'S INTERVAL

Definition 2. The interval $[n, 9(n+3)/8]$, where n is a positive integer, is what we will call *Breusch's interval*.

In Sect. 4 we are going to prove that there is at least one prime number in Breusch's interval for every positive integer n . This statement may have been proved a long time ago; however, we are going to give a clear proof that it is true.

4. BREUSCH'S INTERVAL CONTAINING AT LEAST ONE DUSART'S INTERVAL

Lemma 1. *It is easy to verify that the value of $2(\ln n)^2$ increases as the value of n increases, which means that the value of $1/(2(\ln n)^2)$ decreases as n increases. All this implies that the value of $1 + 1/(2(\ln n)^2)$ decreases as the value of n increases.*

If we consider $n = e$, where e is the base of the natural logarithm, we have

$$1 + \frac{1}{2(\ln n)^2} = 1 + \frac{1}{2(\ln e)^2} = 1 + \frac{1}{2} = 1.5.$$

Now, if we consider $n = e^2$, we have

$$1 + \frac{1}{2(\ln n)^2} = 1 + \frac{1}{2(\ln e^2)^2} = 1 + \frac{1}{2 \cdot 2^2} = 1 + \frac{1}{8} = 1.125.$$

Lemma 2. *Breusch's interval $[n, 9(n+3)/8]$ can also be expressed as $[n, 1.125n + 3.375]$, and of course for every positive integer n we have*

$$1.125n < 1.125n + 3.375.$$

Combining Lemmas 1 and 2, we obtain the following result, which we will express as a new lemma:

Lemma 3. *For every $n \geq e^2$ we have*

$$n < \left(1 + \frac{1}{2(\ln n)^2}\right)n < 1.125n + 3.375,$$

which means that for every integer $n > e^2$, a Breusch's interval contains at least one Dusart's interval.

As we already know, Dusart's interval contains at least one prime number for every $n \geq 3275$ (see Definition 1). If we combine with true statement with Lemma 3, we conclude that for every integer $n \geq 3275$ a Breusch's interval contains at least one Dusart's interval containing at least one prime number. This means that Breusch's interval $[n, 9(n+3)/8]$ contains at least one prime number for every integer $n \geq 3275$. In the following table we also prove that there is at least one prime number in Breusch's interval for every integer n such that $1 \leq n \leq 3274$:

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1	2	4.5
2	2	5.625
3	3	6.75
4	5	7.875
5	5	9
6	7	10.125
7	7	11.25
8	11	12.375
9	11	13.5
10	11	14.625
11	11	15.75
12	13	16.875
13	13	18
14	17	19.125
15	17	20.25
16	17	21.375

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
17	17	22.5
18	19	23.625
19	19	24.75
20	23	25.875
21	23	27
22	23	28.125
23	23	29.25
24	29	30.375
25	29	31.5
26	29	32.625
27	29	33.75
28	29	34.875
29	29	36
30	31	37.125
31	31	38.25
32	37	39.375
33	37	40.5
34	37	41.625
35	37	42.75
36	37	43.875
37	37	45
38	41	46.125
39	41	47.25
40	41	48.375
41	41	49.5
42	43	50.625
43	43	51.75
44	47	52.875
45	47	54
46	47	55.125
47	47	56.25
48	53	57.375
49	53	58.5
50	53	59.625
51	53	60.75
52	53	61.875
53	53	63
54	59	64.125
55	59	65.25
56	59	66.375
57	59	67.5
58	59	68.625
59	59	69.75
60	61	70.875
61	61	72

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
62	67	73.125
63	67	74.25
64	67	75.375
65	67	76.5
66	67	77.625
67	67	78.75
68	71	79.875
69	71	81
70	71	82.125
71	71	83.25
72	73	84.375
73	73	85.5
74	79	86.625
75	79	87.75
76	79	88.875
77	79	90
78	79	91.125
79	79	92.25
80	83	93.375
81	83	94.5
82	83	95.625
83	83	96.75
84	89	97.875
85	89	99
86	89	100.125
87	89	101.25
88	89	102.375
89	89	103.5
90	97	104.625
91	97	105.75
92	97	106.875
93	97	108
94	97	109.125
95	97	110.25
96	97	111.375
97	97	112.5
98	101	113.625
99	101	114.75
100	101	115.875
101	101	117
102	103	118.125
103	103	119.25
104	107	120.375
105	107	121.5
106	107	122.625

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
107	107	123.75
108	109	124.875
109	109	126
110	113	127.125
111	113	128.25
112	113	129.375
113	113	130.5
114	127	131.625
115	127	132.75
116	127	133.875
117	127	135
118	127	136.125
119	127	137.25
120	127	138.375
121	127	139.5
122	127	140.625
123	127	141.75
124	127	142.875
125	127	144
126	127	145.125
127	127	146.25
128	131	147.375
129	131	148.5
130	131	149.625
131	131	150.75
132	137	151.875
133	137	153
134	137	154.125
135	137	155.25
136	137	156.375
137	137	157.5
138	139	158.625
139	139	159.75
140	149	160.875
141	149	162
142	149	163.125
143	149	164.25
144	149	165.375
145	149	166.5
146	149	167.625
147	149	168.75
148	149	169.875
149	149	171
150	151	172.125
151	151	173.25

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
152	157	174.375
153	157	175.5
154	157	176.625
155	157	177.75
156	157	178.875
157	157	180
158	163	181.125
159	163	182.25
160	163	183.375
161	163	184.5
162	163	185.625
163	163	186.75
164	167	187.875
165	167	189
166	167	190.125
167	167	191.25
168	173	192.375
169	173	193.5
170	173	194.625
171	173	195.75
172	173	196.875
173	173	198
174	179	199.125
175	179	200.25
176	179	201.375
177	179	202.5
178	179	203.625
179	179	204.75
180	181	205.875
181	181	207
182	191	208.125
183	191	209.25
184	191	210.375
185	191	211.5
186	191	212.625
187	191	213.75
188	191	214.875
189	191	216
190	191	217.125
191	191	218.25
192	193	219.375
193	193	220.5
194	197	221.625
195	197	222.75
196	197	223.875

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
197	197	225
198	199	226.125
199	199	227.25
200	211	228.375
201	211	229.5
202	211	230.625
203	211	231.75
204	211	232.875
205	211	234
206	211	235.125
207	211	236.25
208	211	237.375
209	211	238.5
210	211	239.625
211	211	240.75
212	223	241.875
213	223	243
214	223	244.125
215	223	245.25
216	223	246.375
217	223	247.5
218	223	248.625
219	223	249.75
220	223	250.875
221	223	252
222	223	253.125
223	223	254.25
224	227	255.375
225	227	256.5
226	227	257.625
227	227	258.75
228	229	259.875
229	229	261
230	233	262.125
231	233	263.25
232	233	264.375
233	233	265.5
234	239	266.625
235	239	267.75
236	239	268.875
237	239	270
238	239	271.125
239	239	272.25
240	241	273.375
241	241	274.5

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
242	251	275.625
243	251	276.75
244	251	277.875
245	251	279
246	251	280.125
247	251	281.25
248	251	282.375
249	251	283.5
250	251	284.625
251	251	285.75
252	257	286.875
253	257	288
254	257	289.125
255	257	290.25
256	257	291.375
257	257	292.5
258	263	293.625
259	263	294.75
260	263	295.875
261	263	297
262	263	298.125
263	263	299.25
264	269	300.375
265	269	301.5
266	269	302.625
267	269	303.75
268	269	304.875
269	269	306
270	271	307.125
271	271	308.25
272	277	309.375
273	277	310.5
274	277	311.625
275	277	312.75
276	277	313.875
277	277	315
278	281	316.125
279	281	317.25
280	281	318.375
281	281	319.5
282	283	320.625
283	283	321.75
284	293	322.875
285	293	324
286	293	325.125

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
287	293	326.25
288	293	327.375
289	293	328.5
290	293	329.625
291	293	330.75
292	293	331.875
293	293	333
294	307	334.125
295	307	335.25
296	307	336.375
297	307	337.5
298	307	338.625
299	307	339.75
300	307	340.875
301	307	342
302	307	343.125
303	307	344.25
304	307	345.375
305	307	346.5
306	307	347.625
307	307	348.75
308	311	349.875
309	311	351
310	311	352.125
311	311	353.25
312	313	354.375
313	313	355.5
314	317	356.625
315	317	357.75
316	317	358.875
317	317	360
318	331	361.125
319	331	362.25
320	331	363.375
321	331	364.5
322	331	365.625
323	331	366.75
324	331	367.875
325	331	369
326	331	370.125
327	331	371.25
328	331	372.375
329	331	373.5
330	331	374.625
331	331	375.75

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
332	337	376.875
333	337	378
334	337	379.125
335	337	380.25
336	337	381.375
337	337	382.5
338	347	383.625
339	347	384.75
340	347	385.875
341	347	387
342	347	388.125
343	347	389.25
344	347	390.375
345	347	391.5
346	347	392.625
347	347	393.75
348	349	394.875
349	349	396
350	353	397.125
351	353	398.25
352	353	399.375
353	353	400.5
354	359	401.625
355	359	402.75
356	359	403.875
357	359	405
358	359	406.125
359	359	407.25
360	367	408.375
361	367	409.5
362	367	410.625
363	367	411.75
364	367	412.875
365	367	414
366	367	415.125
367	367	416.25
368	373	417.375
369	373	418.5
370	373	419.625
371	373	420.75
372	373	421.875
373	373	423
374	379	424.125
375	379	425.25
376	379	426.375

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
377	379	427.5
378	379	428.625
379	379	429.75
380	383	430.875
381	383	432
382	383	433.125
383	383	434.25
384	389	435.375
385	389	436.5
386	389	437.625
387	389	438.75
388	389	439.875
389	389	441
390	397	442.125
391	397	443.25
392	397	444.375
393	397	445.5
394	397	446.625
395	397	447.75
396	397	448.875
397	397	450
398	401	451.125
399	401	452.25
400	401	453.375
401	401	454.5
402	409	455.625
403	409	456.75
404	409	457.875
405	409	459
406	409	460.125
407	409	461.25
408	409	462.375
409	409	463.5
410	419	464.625
411	419	465.75
412	419	466.875
413	419	468
414	419	469.125
415	419	470.25
416	419	471.375
417	419	472.5
418	419	473.625
419	419	474.75
420	421	475.875
421	421	477

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
422	431	478.125
423	431	479.25
424	431	480.375
425	431	481.5
426	431	482.625
427	431	483.75
428	431	484.875
429	431	486
430	431	487.125
431	431	488.25
432	433	489.375
433	433	490.5
434	439	491.625
435	439	492.75
436	439	493.875
437	439	495
438	439	496.125
439	439	497.25
440	443	498.375
441	443	499.5
442	443	500.625
443	443	501.75
444	449	502.875
445	449	504
446	449	505.125
447	449	506.25
448	449	507.375
449	449	508.5
450	457	509.625
451	457	510.75
452	457	511.875
453	457	513
454	457	514.125
455	457	515.25
456	457	516.375
457	457	517.5
458	461	518.625
459	461	519.75
460	461	520.875
461	461	522
462	463	523.125
463	463	524.25
464	467	525.375
465	467	526.5
466	467	527.625

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
467	467	528.75
468	479	529.875
469	479	531
470	479	532.125
471	479	533.25
472	479	534.375
473	479	535.5
474	479	536.625
475	479	537.75
476	479	538.875
477	479	540
478	479	541.125
479	479	542.25
480	487	543.375
481	487	544.5
482	487	545.625
483	487	546.75
484	487	547.875
485	487	549
486	487	550.125
487	487	551.25
488	491	552.375
489	491	553.5
490	491	554.625
491	491	555.75
492	499	556.875
493	499	558
494	499	559.125
495	499	560.25
496	499	561.375
497	499	562.5
498	499	563.625
499	499	564.75
500	503	565.875
501	503	567
502	503	568.125
503	503	569.25
504	509	570.375
505	509	571.5
506	509	572.625
507	509	573.75
508	509	574.875
509	509	576
510	521	577.125
511	521	578.25

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
512	521	579.375
513	521	580.5
514	521	581.625
515	521	582.75
516	521	583.875
517	521	585
518	521	586.125
519	521	587.25
520	521	588.375
521	521	589.5
522	523	590.625
523	523	591.75
524	541	592.875
525	541	594
526	541	595.125
527	541	596.25
528	541	597.375
529	541	598.5
530	541	599.625
531	541	600.75
532	541	601.875
533	541	603
534	541	604.125
535	541	605.25
536	541	606.375
537	541	607.5
538	541	608.625
539	541	609.75
540	541	610.875
541	541	612
542	547	613.125
543	547	614.25
544	547	615.375
545	547	616.5
546	547	617.625
547	547	618.75
548	557	619.875
549	557	621
550	557	622.125
551	557	623.25
552	557	624.375
553	557	625.5
554	557	626.625
555	557	627.75
556	557	628.875

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
557	557	630
558	563	631.125
559	563	632.25
560	563	633.375
561	563	634.5
562	563	635.625
563	563	636.75
564	569	637.875
565	569	639
566	569	640.125
567	569	641.25
568	569	642.375
569	569	643.5
570	571	644.625
571	571	645.75
572	577	646.875
573	577	648
574	577	649.125
575	577	650.25
576	577	651.375
577	577	652.5
578	587	653.625
579	587	654.75
580	587	655.875
581	587	657
582	587	658.125
583	587	659.25
584	587	660.375
585	587	661.5
586	587	662.625
587	587	663.75
588	593	664.875
589	593	666
590	593	667.125
591	593	668.25
592	593	669.375
593	593	670.5
594	599	671.625
595	599	672.75
596	599	673.875
597	599	675
598	599	676.125
599	599	677.25
600	601	678.375
601	601	679.5

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
602	607	680.625
603	607	681.75
604	607	682.875
605	607	684
606	607	685.125
607	607	686.25
608	613	687.375
609	613	688.5
610	613	689.625
611	613	690.75
612	613	691.875
613	613	693
614	617	694.125
615	617	695.25
616	617	696.375
617	617	697.5
618	619	698.625
619	619	699.75
620	631	700.875
621	631	702
622	631	703.125
623	631	704.25
624	631	705.375
625	631	706.5
626	631	707.625
627	631	708.75
628	631	709.875
629	631	711
630	631	712.125
631	631	713.25
632	641	714.375
633	641	715.5
634	641	716.625
635	641	717.75
636	641	718.875
637	641	720
638	641	721.125
639	641	722.25
640	641	723.375
641	641	724.5
642	643	725.625
643	643	726.75
644	647	727.875
645	647	729
646	647	730.125

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
647	647	731.25
648	653	732.375
649	653	733.5
650	653	734.625
651	653	735.75
652	653	736.875
653	653	738
654	659	739.125
655	659	740.25
656	659	741.375
657	659	742.5
658	659	743.625
659	659	744.75
660	661	745.875
661	661	747
662	673	748.125
663	673	749.25
664	673	750.375
665	673	751.5
666	673	752.625
667	673	753.75
668	673	754.875
669	673	756
670	673	757.125
671	673	758.25
672	673	759.375
673	673	760.5
674	677	761.625
675	677	762.75
676	677	763.875
677	677	765
678	683	766.125
679	683	767.25
680	683	768.375
681	683	769.5
682	683	770.625
683	683	771.75
684	691	772.875
685	691	774
686	691	775.125
687	691	776.25
688	691	777.375
689	691	778.5
690	691	779.625
691	691	780.75

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
692	701	781.875
693	701	783
694	701	784.125
695	701	785.25
696	701	786.375
697	701	787.5
698	701	788.625
699	701	789.75
700	701	790.875
701	701	792
702	709	793.125
703	709	794.25
704	709	795.375
705	709	796.5
706	709	797.625
707	709	798.75
708	709	799.875
709	709	801
710	719	802.125
711	719	803.25
712	719	804.375
713	719	805.5
714	719	806.625
715	719	807.75
716	719	808.875
717	719	810
718	719	811.125
719	719	812.25
720	727	813.375
721	727	814.5
722	727	815.625
723	727	816.75
724	727	817.875
725	727	819
726	727	820.125
727	727	821.25
728	733	822.375
729	733	823.5
730	733	824.625
731	733	825.75
732	733	826.875
733	733	828
734	739	829.125
735	739	830.25
736	739	831.375

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
737	739	832.5
738	739	833.625
739	739	834.75
740	743	835.875
741	743	837
742	743	838.125
743	743	839.25
744	751	840.375
745	751	841.5
746	751	842.625
747	751	843.75
748	751	844.875
749	751	846
750	751	847.125
751	751	848.25
752	757	849.375
753	757	850.5
754	757	851.625
755	757	852.75
756	757	853.875
757	757	855
758	761	856.125
759	761	857.25
760	761	858.375
761	761	859.5
762	769	860.625
763	769	861.75
764	769	862.875
765	769	864
766	769	865.125
767	769	866.25
768	769	867.375
769	769	868.5
770	773	869.625
771	773	870.75
772	773	871.875
773	773	873
774	787	874.125
775	787	875.25
776	787	876.375
777	787	877.5
778	787	878.625
779	787	879.75
780	787	880.875
781	787	882

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
782	787	883.125
783	787	884.25
784	787	885.375
785	787	886.5
786	787	887.625
787	787	888.75
788	797	889.875
789	797	891
790	797	892.125
791	797	893.25
792	797	894.375
793	797	895.5
794	797	896.625
795	797	897.75
796	797	898.875
797	797	900
798	809	901.125
799	809	902.25
800	809	903.375
801	809	904.5
802	809	905.625
803	809	906.75
804	809	907.875
805	809	909
806	809	910.125
807	809	911.25
808	809	912.375
809	809	913.5
810	811	914.625
811	811	915.75
812	821	916.875
813	821	918
814	821	919.125
815	821	920.25
816	821	921.375
817	821	922.5
818	821	923.625
819	821	924.75
820	821	925.875
821	821	927
822	823	928.125
823	823	929.25
824	827	930.375
825	827	931.5
826	827	932.625

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
827	827	933.75
828	829	934.875
829	829	936
830	839	937.125
831	839	938.25
832	839	939.375
833	839	940.5
834	839	941.625
835	839	942.75
836	839	943.875
837	839	945
838	839	946.125
839	839	947.25
840	853	948.375
841	853	949.5
842	853	950.625
843	853	951.75
844	853	952.875
845	853	954
846	853	955.125
847	853	956.25
848	853	957.375
849	853	958.5
850	853	959.625
851	853	960.75
852	853	961.875
853	853	963
854	857	964.125
855	857	965.25
856	857	966.375
857	857	967.5
858	859	968.625
859	859	969.75
860	863	970.875
861	863	972
862	863	973.125
863	863	974.25
864	877	975.375
865	877	976.5
866	877	977.625
867	877	978.75
868	877	979.875
869	877	981
870	877	982.125
871	877	983.25

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
872	877	984.375
873	877	985.5
874	877	986.625
875	877	987.75
876	877	988.875
877	877	990
878	881	991.125
879	881	992.25
880	881	993.375
881	881	994.5
882	883	995.625
883	883	996.75
884	887	997.875
885	887	999
886	887	1000.125
887	887	1001.25
888	907	1002.375
889	907	1003.5
890	907	1004.625
891	907	1005.75
892	907	1006.875
893	907	1008
894	907	1009.125
895	907	1010.25
896	907	1011.375
897	907	1012.5
898	907	1013.625
899	907	1014.75
900	907	1015.875
901	907	1017
902	907	1018.125
903	907	1019.25
904	907	1020.375
905	907	1021.5
906	907	1022.625
907	907	1023.75
908	911	1024.875
909	911	1026
910	911	1027.125
911	911	1028.25
912	919	1029.375
913	919	1030.5
914	919	1031.625
915	919	1032.75
916	919	1033.875

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
917	919	1035
918	919	1036.125
919	919	1037.25
920	929	1038.375
921	929	1039.5
922	929	1040.625
923	929	1041.75
924	929	1042.875
925	929	1044
926	929	1045.125
927	929	1046.25
928	929	1047.375
929	929	1048.5
930	937	1049.625
931	937	1050.75
932	937	1051.875
933	937	1053
934	937	1054.125
935	937	1055.25
936	937	1056.375
937	937	1057.5
938	941	1058.625
939	941	1059.75
940	941	1060.875
941	941	1062
942	947	1063.125
943	947	1064.25
944	947	1065.375
945	947	1066.5
946	947	1067.625
947	947	1068.75
948	953	1069.875
949	953	1071
950	953	1072.125
951	953	1073.25
952	953	1074.375
953	953	1075.5
954	967	1076.625
955	967	1077.75
956	967	1078.875
957	967	1080
958	967	1081.125
959	967	1082.25
960	967	1083.375
961	967	1084.5

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
962	967	1085.625
963	967	1086.75
964	967	1087.875
965	967	1089
966	967	1090.125
967	967	1091.25
968	971	1092.375
969	971	1093.5
970	971	1094.625
971	971	1095.75
972	977	1096.875
973	977	1098
974	977	1099.125
975	977	1100.25
976	977	1101.375
977	977	1102.5
978	983	1103.625
979	983	1104.75
980	983	1105.875
981	983	1107
982	983	1108.125
983	983	1109.25
984	991	1110.375
985	991	1111.5
986	991	1112.625
987	991	1113.75
988	991	1114.875
989	991	1116
990	991	1117.125
991	991	1118.25
992	997	1119.375
993	997	1120.5
994	997	1121.625
995	997	1122.75
996	997	1123.875
997	997	1125
998	1009	1126.125
999	1009	1127.25
1000	1009	1128.375
1001	1009	1129.5
1002	1009	1130.625
1003	1009	1131.75
1004	1009	1132.875
1005	1009	1134
1006	1009	1135.125

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1007	1009	1136.25
1008	1009	1137.375
1009	1009	1138.5
1010	1013	1139.625
1011	1013	1140.75
1012	1013	1141.875
1013	1013	1143
1014	1019	1144.125
1015	1019	1145.25
1016	1019	1146.375
1017	1019	1147.5
1018	1019	1148.625
1019	1019	1149.75
1020	1021	1150.875
1021	1021	1152
1022	1031	1153.125
1023	1031	1154.25
1024	1031	1155.375
1025	1031	1156.5
1026	1031	1157.625
1027	1031	1158.75
1028	1031	1159.875
1029	1031	1161
1030	1031	1162.125
1031	1031	1163.25
1032	1033	1164.375
1033	1033	1165.5
1034	1039	1166.625
1035	1039	1167.75
1036	1039	1168.875
1037	1039	1170
1038	1039	1171.125
1039	1039	1172.25
1040	1049	1173.375
1041	1049	1174.5
1042	1049	1175.625
1043	1049	1176.75
1044	1049	1177.875
1045	1049	1179
1046	1049	1180.125
1047	1049	1181.25
1048	1049	1182.375
1049	1049	1183.5
1050	1051	1184.625
1051	1051	1185.75

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1052	1061	1186.875
1053	1061	1188
1054	1061	1189.125
1055	1061	1190.25
1056	1061	1191.375
1057	1061	1192.5
1058	1061	1193.625
1059	1061	1194.75
1060	1061	1195.875
1061	1061	1197
1062	1063	1198.125
1063	1063	1199.25
1064	1069	1200.375
1065	1069	1201.5
1066	1069	1202.625
1067	1069	1203.75
1068	1069	1204.875
1069	1069	1206
1070	1087	1207.125
1071	1087	1208.25
1072	1087	1209.375
1073	1087	1210.5
1074	1087	1211.625
1075	1087	1212.75
1076	1087	1213.875
1077	1087	1215
1078	1087	1216.125
1079	1087	1217.25
1080	1087	1218.375
1081	1087	1219.5
1082	1087	1220.625
1083	1087	1221.75
1084	1087	1222.875
1085	1087	1224
1086	1087	1225.125
1087	1087	1226.25
1088	1091	1227.375
1089	1091	1228.5
1090	1091	1229.625
1091	1091	1230.75
1092	1093	1231.875
1093	1093	1233
1094	1097	1234.125
1095	1097	1235.25
1096	1097	1236.375

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1097	1097	1237.5
1098	1103	1238.625
1099	1103	1239.75
1100	1103	1240.875
1101	1103	1242
1102	1103	1243.125
1103	1103	1244.25
1104	1109	1245.375
1105	1109	1246.5
1106	1109	1247.625
1107	1109	1248.75
1108	1109	1249.875
1109	1109	1251
1110	1117	1252.125
1111	1117	1253.25
1112	1117	1254.375
1113	1117	1255.5
1114	1117	1256.625
1115	1117	1257.75
1116	1117	1258.875
1117	1117	1260
1118	1123	1261.125
1119	1123	1262.25
1120	1123	1263.375
1121	1123	1264.5
1122	1123	1265.625
1123	1123	1266.75
1124	1129	1267.875
1125	1129	1269
1126	1129	1270.125
1127	1129	1271.25
1128	1129	1272.375
1129	1129	1273.5
1130	1151	1274.625
1131	1151	1275.75
1132	1151	1276.875
1133	1151	1278
1134	1151	1279.125
1135	1151	1280.25
1136	1151	1281.375
1137	1151	1282.5
1138	1151	1283.625
1139	1151	1284.75
1140	1151	1285.875
1141	1151	1287

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1142	1151	1288.125
1143	1151	1289.25
1144	1151	1290.375
1145	1151	1291.5
1146	1151	1292.625
1147	1151	1293.75
1148	1151	1294.875
1149	1151	1296
1150	1151	1297.125
1151	1151	1298.25
1152	1163	1299.375
1153	1163	1300.5
1154	1163	1301.625
1155	1163	1302.75
1156	1163	1303.875
1157	1163	1305
1158	1163	1306.125
1159	1163	1307.25
1160	1163	1308.375
1161	1163	1309.5
1162	1163	1310.625
1163	1163	1311.75
1164	1171	1312.875
1165	1171	1314
1166	1171	1315.125
1167	1171	1316.25
1168	1171	1317.375
1169	1171	1318.5
1170	1171	1319.625
1171	1171	1320.75
1172	1181	1321.875
1173	1181	1323
1174	1181	1324.125
1175	1181	1325.25
1176	1181	1326.375
1177	1181	1327.5
1178	1181	1328.625
1179	1181	1329.75
1180	1181	1330.875
1181	1181	1332
1182	1187	1333.125
1183	1187	1334.25
1184	1187	1335.375
1185	1187	1336.5
1186	1187	1337.625

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1187	1187	1338.75
1188	1193	1339.875
1189	1193	1341
1190	1193	1342.125
1191	1193	1343.25
1192	1193	1344.375
1193	1193	1345.5
1194	1201	1346.625
1195	1201	1347.75
1196	1201	1348.875
1197	1201	1350
1198	1201	1351.125
1199	1201	1352.25
1200	1201	1353.375
1201	1201	1354.5
1202	1213	1355.625
1203	1213	1356.75
1204	1213	1357.875
1205	1213	1359
1206	1213	1360.125
1207	1213	1361.25
1208	1213	1362.375
1209	1213	1363.5
1210	1213	1364.625
1211	1213	1365.75
1212	1213	1366.875
1213	1213	1368
1214	1217	1369.125
1215	1217	1370.25
1216	1217	1371.375
1217	1217	1372.5
1218	1223	1373.625
1219	1223	1374.75
1220	1223	1375.875
1221	1223	1377
1222	1223	1378.125
1223	1223	1379.25
1224	1229	1380.375
1225	1229	1381.5
1226	1229	1382.625
1227	1229	1383.75
1228	1229	1384.875
1229	1229	1386
1230	1231	1387.125
1231	1231	1388.25

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1232	1237	1389.375
1233	1237	1390.5
1234	1237	1391.625
1235	1237	1392.75
1236	1237	1393.875
1237	1237	1395
1238	1249	1396.125
1239	1249	1397.25
1240	1249	1398.375
1241	1249	1399.5
1242	1249	1400.625
1243	1249	1401.75
1244	1249	1402.875
1245	1249	1404
1246	1249	1405.125
1247	1249	1406.25
1248	1249	1407.375
1249	1249	1408.5
1250	1259	1409.625
1251	1259	1410.75
1252	1259	1411.875
1253	1259	1413
1254	1259	1414.125
1255	1259	1415.25
1256	1259	1416.375
1257	1259	1417.5
1258	1259	1418.625
1259	1259	1419.75
1260	1277	1420.875
1261	1277	1422
1262	1277	1423.125
1263	1277	1424.25
1264	1277	1425.375
1265	1277	1426.5
1266	1277	1427.625
1267	1277	1428.75
1268	1277	1429.875
1269	1277	1431
1270	1277	1432.125
1271	1277	1433.25
1272	1277	1434.375
1273	1277	1435.5
1274	1277	1436.625
1275	1277	1437.75
1276	1277	1438.875

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1277	1277	1440
1278	1279	1441.125
1279	1279	1442.25
1280	1283	1443.375
1281	1283	1444.5
1282	1283	1445.625
1283	1283	1446.75
1284	1289	1447.875
1285	1289	1449
1286	1289	1450.125
1287	1289	1451.25
1288	1289	1452.375
1289	1289	1453.5
1290	1291	1454.625
1291	1291	1455.75
1292	1297	1456.875
1293	1297	1458
1294	1297	1459.125
1295	1297	1460.25
1296	1297	1461.375
1297	1297	1462.5
1298	1301	1463.625
1299	1301	1464.75
1300	1301	1465.875
1301	1301	1467
1302	1303	1468.125
1303	1303	1469.25
1304	1307	1470.375
1305	1307	1471.5
1306	1307	1472.625
1307	1307	1473.75
1308	1319	1474.875
1309	1319	1476
1310	1319	1477.125
1311	1319	1478.25
1312	1319	1479.375
1313	1319	1480.5
1314	1319	1481.625
1315	1319	1482.75
1316	1319	1483.875
1317	1319	1485
1318	1319	1486.125
1319	1319	1487.25
1320	1321	1488.375
1321	1321	1489.5

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1322	1327	1490.625
1323	1327	1491.75
1324	1327	1492.875
1325	1327	1494
1326	1327	1495.125
1327	1327	1496.25
1328	1361	1497.375
1329	1361	1498.5
1330	1361	1499.625
1331	1361	1500.75
1332	1361	1501.875
1333	1361	1503
1334	1361	1504.125
1335	1361	1505.25
1336	1361	1506.375
1337	1361	1507.5
1338	1361	1508.625
1339	1361	1509.75
1340	1361	1510.875
1341	1361	1512
1342	1361	1513.125
1343	1361	1514.25
1344	1361	1515.375
1345	1361	1516.5
1346	1361	1517.625
1347	1361	1518.75
1348	1361	1519.875
1349	1361	1521
1350	1361	1522.125
1351	1361	1523.25
1352	1361	1524.375
1353	1361	1525.5
1354	1361	1526.625
1355	1361	1527.75
1356	1361	1528.875
1357	1361	1530
1358	1361	1531.125
1359	1361	1532.25
1360	1361	1533.375
1361	1361	1534.5
1362	1367	1535.625
1363	1367	1536.75
1364	1367	1537.875
1365	1367	1539
1366	1367	1540.125

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1367	1367	1541.25
1368	1373	1542.375
1369	1373	1543.5
1370	1373	1544.625
1371	1373	1545.75
1372	1373	1546.875
1373	1373	1548
1374	1381	1549.125
1375	1381	1550.25
1376	1381	1551.375
1377	1381	1552.5
1378	1381	1553.625
1379	1381	1554.75
1380	1381	1555.875
1381	1381	1557
1382	1399	1558.125
1383	1399	1559.25
1384	1399	1560.375
1385	1399	1561.5
1386	1399	1562.625
1387	1399	1563.75
1388	1399	1564.875
1389	1399	1566
1390	1399	1567.125
1391	1399	1568.25
1392	1399	1569.375
1393	1399	1570.5
1394	1399	1571.625
1395	1399	1572.75
1396	1399	1573.875
1397	1399	1575
1398	1399	1576.125
1399	1399	1577.25
1400	1409	1578.375
1401	1409	1579.5
1402	1409	1580.625
1403	1409	1581.75
1404	1409	1582.875
1405	1409	1584
1406	1409	1585.125
1407	1409	1586.25
1408	1409	1587.375
1409	1409	1588.5
1410	1423	1589.625
1411	1423	1590.75

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1412	1423	1591.875
1413	1423	1593
1414	1423	1594.125
1415	1423	1595.25
1416	1423	1596.375
1417	1423	1597.5
1418	1423	1598.625
1419	1423	1599.75
1420	1423	1600.875
1421	1423	1602
1422	1423	1603.125
1423	1423	1604.25
1424	1427	1605.375
1425	1427	1606.5
1426	1427	1607.625
1427	1427	1608.75
1428	1429	1609.875
1429	1429	1611
1430	1433	1612.125
1431	1433	1613.25
1432	1433	1614.375
1433	1433	1615.5
1434	1439	1616.625
1435	1439	1617.75
1436	1439	1618.875
1437	1439	1620
1438	1439	1621.125
1439	1439	1622.25
1440	1447	1623.375
1441	1447	1624.5
1442	1447	1625.625
1443	1447	1626.75
1444	1447	1627.875
1445	1447	1629
1446	1447	1630.125
1447	1447	1631.25
1448	1451	1632.375
1449	1451	1633.5
1450	1451	1634.625
1451	1451	1635.75
1452	1453	1636.875
1453	1453	1638
1454	1459	1639.125
1455	1459	1640.25
1456	1459	1641.375

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1457	1459	1642.5
1458	1459	1643.625
1459	1459	1644.75
1460	1471	1645.875
1461	1471	1647
1462	1471	1648.125
1463	1471	1649.25
1464	1471	1650.375
1465	1471	1651.5
1466	1471	1652.625
1467	1471	1653.75
1468	1471	1654.875
1469	1471	1656
1470	1471	1657.125
1471	1471	1658.25
1472	1481	1659.375
1473	1481	1660.5
1474	1481	1661.625
1475	1481	1662.75
1476	1481	1663.875
1477	1481	1665
1478	1481	1666.125
1479	1481	1667.25
1480	1481	1668.375
1481	1481	1669.5
1482	1483	1670.625
1483	1483	1671.75
1484	1487	1672.875
1485	1487	1674
1486	1487	1675.125
1487	1487	1676.25
1488	1489	1677.375
1489	1489	1678.5
1490	1493	1679.625
1491	1493	1680.75
1492	1493	1681.875
1493	1493	1683
1494	1499	1684.125
1495	1499	1685.25
1496	1499	1686.375
1497	1499	1687.5
1498	1499	1688.625
1499	1499	1689.75
1500	1511	1690.875
1501	1511	1692

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1502	1511	1693.125
1503	1511	1694.25
1504	1511	1695.375
1505	1511	1696.5
1506	1511	1697.625
1507	1511	1698.75
1508	1511	1699.875
1509	1511	1701
1510	1511	1702.125
1511	1511	1703.25
1512	1523	1704.375
1513	1523	1705.5
1514	1523	1706.625
1515	1523	1707.75
1516	1523	1708.875
1517	1523	1710
1518	1523	1711.125
1519	1523	1712.25
1520	1523	1713.375
1521	1523	1714.5
1522	1523	1715.625
1523	1523	1716.75
1524	1531	1717.875
1525	1531	1719
1526	1531	1720.125
1527	1531	1721.25
1528	1531	1722.375
1529	1531	1723.5
1530	1531	1724.625
1531	1531	1725.75
1532	1543	1726.875
1533	1543	1728
1534	1543	1729.125
1535	1543	1730.25
1536	1543	1731.375
1537	1543	1732.5
1538	1543	1733.625
1539	1543	1734.75
1540	1543	1735.875
1541	1543	1737
1542	1543	1738.125
1543	1543	1739.25
1544	1549	1740.375
1545	1549	1741.5
1546	1549	1742.625

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1547	1549	1743.75
1548	1549	1744.875
1549	1549	1746
1550	1553	1747.125
1551	1553	1748.25
1552	1553	1749.375
1553	1553	1750.5
1554	1559	1751.625
1555	1559	1752.75
1556	1559	1753.875
1557	1559	1755
1558	1559	1756.125
1559	1559	1757.25
1560	1567	1758.375
1561	1567	1759.5
1562	1567	1760.625
1563	1567	1761.75
1564	1567	1762.875
1565	1567	1764
1566	1567	1765.125
1567	1567	1766.25
1568	1571	1767.375
1569	1571	1768.5
1570	1571	1769.625
1571	1571	1770.75
1572	1579	1771.875
1573	1579	1773
1574	1579	1774.125
1575	1579	1775.25
1576	1579	1776.375
1577	1579	1777.5
1578	1579	1778.625
1579	1579	1779.75
1580	1583	1780.875
1581	1583	1782
1582	1583	1783.125
1583	1583	1784.25
1584	1597	1785.375
1585	1597	1786.5
1586	1597	1787.625
1587	1597	1788.75
1588	1597	1789.875
1589	1597	1791
1590	1597	1792.125
1591	1597	1793.25

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1592	1597	1794.375
1593	1597	1795.5
1594	1597	1796.625
1595	1597	1797.75
1596	1597	1798.875
1597	1597	1800
1598	1601	1801.125
1599	1601	1802.25
1600	1601	1803.375
1601	1601	1804.5
1602	1607	1805.625
1603	1607	1806.75
1604	1607	1807.875
1605	1607	1809
1606	1607	1810.125
1607	1607	1811.25
1608	1609	1812.375
1609	1609	1813.5
1610	1613	1814.625
1611	1613	1815.75
1612	1613	1816.875
1613	1613	1818
1614	1619	1819.125
1615	1619	1820.25
1616	1619	1821.375
1617	1619	1822.5
1618	1619	1823.625
1619	1619	1824.75
1620	1621	1825.875
1621	1621	1827
1622	1627	1828.125
1623	1627	1829.25
1624	1627	1830.375
1625	1627	1831.5
1626	1627	1832.625
1627	1627	1833.75
1628	1637	1834.875
1629	1637	1836
1630	1637	1837.125
1631	1637	1838.25
1632	1637	1839.375
1633	1637	1840.5
1634	1637	1841.625
1635	1637	1842.75
1636	1637	1843.875

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1637	1637	1845
1638	1657	1846.125
1639	1657	1847.25
1640	1657	1848.375
1641	1657	1849.5
1642	1657	1850.625
1643	1657	1851.75
1644	1657	1852.875
1645	1657	1854
1646	1657	1855.125
1647	1657	1856.25
1648	1657	1857.375
1649	1657	1858.5
1650	1657	1859.625
1651	1657	1860.75
1652	1657	1861.875
1653	1657	1863
1654	1657	1864.125
1655	1657	1865.25
1656	1657	1866.375
1657	1657	1867.5
1658	1663	1868.625
1659	1663	1869.75
1660	1663	1870.875
1661	1663	1872
1662	1663	1873.125
1663	1663	1874.25
1664	1667	1875.375
1665	1667	1876.5
1666	1667	1877.625
1667	1667	1878.75
1668	1669	1879.875
1669	1669	1881
1670	1693	1882.125
1671	1693	1883.25
1672	1693	1884.375
1673	1693	1885.5
1674	1693	1886.625
1675	1693	1887.75
1676	1693	1888.875
1677	1693	1890
1678	1693	1891.125
1679	1693	1892.25
1680	1693	1893.375
1681	1693	1894.5

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1682	1693	1895.625
1683	1693	1896.75
1684	1693	1897.875
1685	1693	1899
1686	1693	1900.125
1687	1693	1901.25
1688	1693	1902.375
1689	1693	1903.5
1690	1693	1904.625
1691	1693	1905.75
1692	1693	1906.875
1693	1693	1908
1694	1697	1909.125
1695	1697	1910.25
1696	1697	1911.375
1697	1697	1912.5
1698	1699	1913.625
1699	1699	1914.75
1700	1709	1915.875
1701	1709	1917
1702	1709	1918.125
1703	1709	1919.25
1704	1709	1920.375
1705	1709	1921.5
1706	1709	1922.625
1707	1709	1923.75
1708	1709	1924.875
1709	1709	1926
1710	1721	1927.125
1711	1721	1928.25
1712	1721	1929.375
1713	1721	1930.5
1714	1721	1931.625
1715	1721	1932.75
1716	1721	1933.875
1717	1721	1935
1718	1721	1936.125
1719	1721	1937.25
1720	1721	1938.375
1721	1721	1939.5
1722	1723	1940.625
1723	1723	1941.75
1724	1733	1942.875
1725	1733	1944
1726	1733	1945.125

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1727	1733	1946.25
1728	1733	1947.375
1729	1733	1948.5
1730	1733	1949.625
1731	1733	1950.75
1732	1733	1951.875
1733	1733	1953
1734	1741	1954.125
1735	1741	1955.25
1736	1741	1956.375
1737	1741	1957.5
1738	1741	1958.625
1739	1741	1959.75
1740	1741	1960.875
1741	1741	1962
1742	1747	1963.125
1743	1747	1964.25
1744	1747	1965.375
1745	1747	1966.5
1746	1747	1967.625
1747	1747	1968.75
1748	1753	1969.875
1749	1753	1971
1750	1753	1972.125
1751	1753	1973.25
1752	1753	1974.375
1753	1753	1975.5
1754	1759	1976.625
1755	1759	1977.75
1756	1759	1978.875
1757	1759	1980
1758	1759	1981.125
1759	1759	1982.25
1760	1777	1983.375
1761	1777	1984.5
1762	1777	1985.625
1763	1777	1986.75
1764	1777	1987.875
1765	1777	1989
1766	1777	1990.125
1767	1777	1991.25
1768	1777	1992.375
1769	1777	1993.5
1770	1777	1994.625
1771	1777	1995.75

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1772	1777	1996.875
1773	1777	1998
1774	1777	1999.125
1775	1777	2000.25
1776	1777	2001.375
1777	1777	2002.5
1778	1783	2003.625
1779	1783	2004.75
1780	1783	2005.875
1781	1783	2007
1782	1783	2008.125
1783	1783	2009.25
1784	1787	2010.375
1785	1787	2011.5
1786	1787	2012.625
1787	1787	2013.75
1788	1789	2014.875
1789	1789	2016
1790	1801	2017.125
1791	1801	2018.25
1792	1801	2019.375
1793	1801	2020.5
1794	1801	2021.625
1795	1801	2022.75
1796	1801	2023.875
1797	1801	2025
1798	1801	2026.125
1799	1801	2027.25
1800	1801	2028.375
1801	1801	2029.5
1802	1811	2030.625
1803	1811	2031.75
1804	1811	2032.875
1805	1811	2034
1806	1811	2035.125
1807	1811	2036.25
1808	1811	2037.375
1809	1811	2038.5
1810	1811	2039.625
1811	1811	2040.75
1812	1823	2041.875
1813	1823	2043
1814	1823	2044.125
1815	1823	2045.25
1816	1823	2046.375

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1817	1823	2047.5
1818	1823	2048.625
1819	1823	2049.75
1820	1823	2050.875
1821	1823	2052
1822	1823	2053.125
1823	1823	2054.25
1824	1831	2055.375
1825	1831	2056.5
1826	1831	2057.625
1827	1831	2058.75
1828	1831	2059.875
1829	1831	2061
1830	1831	2062.125
1831	1831	2063.25
1832	1847	2064.375
1833	1847	2065.5
1834	1847	2066.625
1835	1847	2067.75
1836	1847	2068.875
1837	1847	2070
1838	1847	2071.125
1839	1847	2072.25
1840	1847	2073.375
1841	1847	2074.5
1842	1847	2075.625
1843	1847	2076.75
1844	1847	2077.875
1845	1847	2079
1846	1847	2080.125
1847	1847	2081.25
1848	1861	2082.375
1849	1861	2083.5
1850	1861	2084.625
1851	1861	2085.75
1852	1861	2086.875
1853	1861	2088
1854	1861	2089.125
1855	1861	2090.25
1856	1861	2091.375
1857	1861	2092.5
1858	1861	2093.625
1859	1861	2094.75
1860	1861	2095.875
1861	1861	2097

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1862	1867	2098.125
1863	1867	2099.25
1864	1867	2100.375
1865	1867	2101.5
1866	1867	2102.625
1867	1867	2103.75
1868	1871	2104.875
1869	1871	2106
1870	1871	2107.125
1871	1871	2108.25
1872	1873	2109.375
1873	1873	2110.5
1874	1877	2111.625
1875	1877	2112.75
1876	1877	2113.875
1877	1877	2115
1878	1879	2116.125
1879	1879	2117.25
1880	1889	2118.375
1881	1889	2119.5
1882	1889	2120.625
1883	1889	2121.75
1884	1889	2122.875
1885	1889	2124
1886	1889	2125.125
1887	1889	2126.25
1888	1889	2127.375
1889	1889	2128.5
1890	1901	2129.625
1891	1901	2130.75
1892	1901	2131.875
1893	1901	2133
1894	1901	2134.125
1895	1901	2135.25
1896	1901	2136.375
1897	1901	2137.5
1898	1901	2138.625
1899	1901	2139.75
1900	1901	2140.875
1901	1901	2142
1902	1907	2143.125
1903	1907	2144.25
1904	1907	2145.375
1905	1907	2146.5
1906	1907	2147.625

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1907	1907	2148.75
1908	1913	2149.875
1909	1913	2151
1910	1913	2152.125
1911	1913	2153.25
1912	1913	2154.375
1913	1913	2155.5
1914	1931	2156.625
1915	1931	2157.75
1916	1931	2158.875
1917	1931	2160
1918	1931	2161.125
1919	1931	2162.25
1920	1931	2163.375
1921	1931	2164.5
1922	1931	2165.625
1923	1931	2166.75
1924	1931	2167.875
1925	1931	2169
1926	1931	2170.125
1927	1931	2171.25
1928	1931	2172.375
1929	1931	2173.5
1930	1931	2174.625
1931	1931	2175.75
1932	1933	2176.875
1933	1933	2178
1934	1949	2179.125
1935	1949	2180.25
1936	1949	2181.375
1937	1949	2182.5
1938	1949	2183.625
1939	1949	2184.75
1940	1949	2185.875
1941	1949	2187
1942	1949	2188.125
1943	1949	2189.25
1944	1949	2190.375
1945	1949	2191.5
1946	1949	2192.625
1947	1949	2193.75
1948	1949	2194.875
1949	1949	2196
1950	1951	2197.125
1951	1951	2198.25

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1952	1973	2199.375
1953	1973	2200.5
1954	1973	2201.625
1955	1973	2202.75
1956	1973	2203.875
1957	1973	2205
1958	1973	2206.125
1959	1973	2207.25
1960	1973	2208.375
1961	1973	2209.5
1962	1973	2210.625
1963	1973	2211.75
1964	1973	2212.875
1965	1973	2214
1966	1973	2215.125
1967	1973	2216.25
1968	1973	2217.375
1969	1973	2218.5
1970	1973	2219.625
1971	1973	2220.75
1972	1973	2221.875
1973	1973	2223
1974	1979	2224.125
1975	1979	2225.25
1976	1979	2226.375
1977	1979	2227.5
1978	1979	2228.625
1979	1979	2229.75
1980	1987	2230.875
1981	1987	2232
1982	1987	2233.125
1983	1987	2234.25
1984	1987	2235.375
1985	1987	2236.5
1986	1987	2237.625
1987	1987	2238.75
1988	1993	2239.875
1989	1993	2241
1990	1993	2242.125
1991	1993	2243.25
1992	1993	2244.375
1993	1993	2245.5
1994	1997	2246.625
1995	1997	2247.75
1996	1997	2248.875

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
1997	1997	2250
1998	1999	2251.125
1999	1999	2252.25
2000	2003	2253.375
2001	2003	2254.5
2002	2003	2255.625
2003	2003	2256.75
2004	2011	2257.875
2005	2011	2259
2006	2011	2260.125
2007	2011	2261.25
2008	2011	2262.375
2009	2011	2263.5
2010	2011	2264.625
2011	2011	2265.75
2012	2017	2266.875
2013	2017	2268
2014	2017	2269.125
2015	2017	2270.25
2016	2017	2271.375
2017	2017	2272.5
2018	2027	2273.625
2019	2027	2274.75
2020	2027	2275.875
2021	2027	2277
2022	2027	2278.125
2023	2027	2279.25
2024	2027	2280.375
2025	2027	2281.5
2026	2027	2282.625
2027	2027	2283.75
2028	2029	2284.875
2029	2029	2286
2030	2039	2287.125
2031	2039	2288.25
2032	2039	2289.375
2033	2039	2290.5
2034	2039	2291.625
2035	2039	2292.75
2036	2039	2293.875
2037	2039	2295
2038	2039	2296.125
2039	2039	2297.25
2040	2053	2298.375
2041	2053	2299.5

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2042	2053	2300.625
2043	2053	2301.75
2044	2053	2302.875
2045	2053	2304
2046	2053	2305.125
2047	2053	2306.25
2048	2053	2307.375
2049	2053	2308.5
2050	2053	2309.625
2051	2053	2310.75
2052	2053	2311.875
2053	2053	2313
2054	2063	2314.125
2055	2063	2315.25
2056	2063	2316.375
2057	2063	2317.5
2058	2063	2318.625
2059	2063	2319.75
2060	2063	2320.875
2061	2063	2322
2062	2063	2323.125
2063	2063	2324.25
2064	2069	2325.375
2065	2069	2326.5
2066	2069	2327.625
2067	2069	2328.75
2068	2069	2329.875
2069	2069	2331
2070	2081	2332.125
2071	2081	2333.25
2072	2081	2334.375
2073	2081	2335.5
2074	2081	2336.625
2075	2081	2337.75
2076	2081	2338.875
2077	2081	2340
2078	2081	2341.125
2079	2081	2342.25
2080	2081	2343.375
2081	2081	2344.5
2082	2083	2345.625
2083	2083	2346.75
2084	2087	2347.875
2085	2087	2349
2086	2087	2350.125

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2087	2087	2351.25
2088	2089	2352.375
2089	2089	2353.5
2090	2099	2354.625
2091	2099	2355.75
2092	2099	2356.875
2093	2099	2358
2094	2099	2359.125
2095	2099	2360.25
2096	2099	2361.375
2097	2099	2362.5
2098	2099	2363.625
2099	2099	2364.75
2100	2111	2365.875
2101	2111	2367
2102	2111	2368.125
2103	2111	2369.25
2104	2111	2370.375
2105	2111	2371.5
2106	2111	2372.625
2107	2111	2373.75
2108	2111	2374.875
2109	2111	2376
2110	2111	2377.125
2111	2111	2378.25
2112	2113	2379.375
2113	2113	2380.5
2114	2129	2381.625
2115	2129	2382.75
2116	2129	2383.875
2117	2129	2385
2118	2129	2386.125
2119	2129	2387.25
2120	2129	2388.375
2121	2129	2389.5
2122	2129	2390.625
2123	2129	2391.75
2124	2129	2392.875
2125	2129	2394
2126	2129	2395.125
2127	2129	2396.25
2128	2129	2397.375
2129	2129	2398.5
2130	2131	2399.625
2131	2131	2400.75

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2132	2137	2401.875
2133	2137	2403
2134	2137	2404.125
2135	2137	2405.25
2136	2137	2406.375
2137	2137	2407.5
2138	2141	2408.625
2139	2141	2409.75
2140	2141	2410.875
2141	2141	2412
2142	2143	2413.125
2143	2143	2414.25
2144	2153	2415.375
2145	2153	2416.5
2146	2153	2417.625
2147	2153	2418.75
2148	2153	2419.875
2149	2153	2421
2150	2153	2422.125
2151	2153	2423.25
2152	2153	2424.375
2153	2153	2425.5
2154	2161	2426.625
2155	2161	2427.75
2156	2161	2428.875
2157	2161	2430
2158	2161	2431.125
2159	2161	2432.25
2160	2161	2433.375
2161	2161	2434.5
2162	2179	2435.625
2163	2179	2436.75
2164	2179	2437.875
2165	2179	2439
2166	2179	2440.125
2167	2179	2441.25
2168	2179	2442.375
2169	2179	2443.5
2170	2179	2444.625
2171	2179	2445.75
2172	2179	2446.875
2173	2179	2448
2174	2179	2449.125
2175	2179	2450.25
2176	2179	2451.375

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2177	2179	2452.5
2178	2179	2453.625
2179	2179	2454.75
2180	2203	2455.875
2181	2203	2457
2182	2203	2458.125
2183	2203	2459.25
2184	2203	2460.375
2185	2203	2461.5
2186	2203	2462.625
2187	2203	2463.75
2188	2203	2464.875
2189	2203	2466
2190	2203	2467.125
2191	2203	2468.25
2192	2203	2469.375
2193	2203	2470.5
2194	2203	2471.625
2195	2203	2472.75
2196	2203	2473.875
2197	2203	2475
2198	2203	2476.125
2199	2203	2477.25
2200	2203	2478.375
2201	2203	2479.5
2202	2203	2480.625
2203	2203	2481.75
2204	2207	2482.875
2205	2207	2484
2206	2207	2485.125
2207	2207	2486.25
2208	2213	2487.375
2209	2213	2488.5
2210	2213	2489.625
2211	2213	2490.75
2212	2213	2491.875
2213	2213	2493
2214	2221	2494.125
2215	2221	2495.25
2216	2221	2496.375
2217	2221	2497.5
2218	2221	2498.625
2219	2221	2499.75
2220	2221	2500.875
2221	2221	2502

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2222	2237	2503.125
2223	2237	2504.25
2224	2237	2505.375
2225	2237	2506.5
2226	2237	2507.625
2227	2237	2508.75
2228	2237	2509.875
2229	2237	2511
2230	2237	2512.125
2231	2237	2513.25
2232	2237	2514.375
2233	2237	2515.5
2234	2237	2516.625
2235	2237	2517.75
2236	2237	2518.875
2237	2237	2520
2238	2239	2521.125
2239	2239	2522.25
2240	2243	2523.375
2241	2243	2524.5
2242	2243	2525.625
2243	2243	2526.75
2244	2251	2527.875
2245	2251	2529
2246	2251	2530.125
2247	2251	2531.25
2248	2251	2532.375
2249	2251	2533.5
2250	2251	2534.625
2251	2251	2535.75
2252	2267	2536.875
2253	2267	2538
2254	2267	2539.125
2255	2267	2540.25
2256	2267	2541.375
2257	2267	2542.5
2258	2267	2543.625
2259	2267	2544.75
2260	2267	2545.875
2261	2267	2547
2262	2267	2548.125
2263	2267	2549.25
2264	2267	2550.375
2265	2267	2551.5
2266	2267	2552.625

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2267	2267	2553.75
2268	2269	2554.875
2269	2269	2556
2270	2273	2557.125
2271	2273	2558.25
2272	2273	2559.375
2273	2273	2560.5
2274	2281	2561.625
2275	2281	2562.75
2276	2281	2563.875
2277	2281	2565
2278	2281	2566.125
2279	2281	2567.25
2280	2281	2568.375
2281	2281	2569.5
2282	2287	2570.625
2283	2287	2571.75
2284	2287	2572.875
2285	2287	2574
2286	2287	2575.125
2287	2287	2576.25
2288	2293	2577.375
2289	2293	2578.5
2290	2293	2579.625
2291	2293	2580.75
2292	2293	2581.875
2293	2293	2583
2294	2297	2584.125
2295	2297	2585.25
2296	2297	2586.375
2297	2297	2587.5
2298	2309	2588.625
2299	2309	2589.75
2300	2309	2590.875
2301	2309	2592
2302	2309	2593.125
2303	2309	2594.25
2304	2309	2595.375
2305	2309	2596.5
2306	2309	2597.625
2307	2309	2598.75
2308	2309	2599.875
2309	2309	2601
2310	2311	2602.125
2311	2311	2603.25

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2312	2333	2604.375
2313	2333	2605.5
2314	2333	2606.625
2315	2333	2607.75
2316	2333	2608.875
2317	2333	2610
2318	2333	2611.125
2319	2333	2612.25
2320	2333	2613.375
2321	2333	2614.5
2322	2333	2615.625
2323	2333	2616.75
2324	2333	2617.875
2325	2333	2619
2326	2333	2620.125
2327	2333	2621.25
2328	2333	2622.375
2329	2333	2623.5
2330	2333	2624.625
2331	2333	2625.75
2332	2333	2626.875
2333	2333	2628
2334	2339	2629.125
2335	2339	2630.25
2336	2339	2631.375
2337	2339	2632.5
2338	2339	2633.625
2339	2339	2634.75
2340	2341	2635.875
2341	2341	2637
2342	2347	2638.125
2343	2347	2639.25
2344	2347	2640.375
2345	2347	2641.5
2346	2347	2642.625
2347	2347	2643.75
2348	2351	2644.875
2349	2351	2646
2350	2351	2647.125
2351	2351	2648.25
2352	2357	2649.375
2353	2357	2650.5
2354	2357	2651.625
2355	2357	2652.75
2356	2357	2653.875

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2357	2357	2655
2358	2371	2656.125
2359	2371	2657.25
2360	2371	2658.375
2361	2371	2659.5
2362	2371	2660.625
2363	2371	2661.75
2364	2371	2662.875
2365	2371	2664
2366	2371	2665.125
2367	2371	2666.25
2368	2371	2667.375
2369	2371	2668.5
2370	2371	2669.625
2371	2371	2670.75
2372	2377	2671.875
2373	2377	2673
2374	2377	2674.125
2375	2377	2675.25
2376	2377	2676.375
2377	2377	2677.5
2378	2381	2678.625
2379	2381	2679.75
2380	2381	2680.875
2381	2381	2682
2382	2383	2683.125
2383	2383	2684.25
2384	2389	2685.375
2385	2389	2686.5
2386	2389	2687.625
2387	2389	2688.75
2388	2389	2689.875
2389	2389	2691
2390	2393	2692.125
2391	2393	2693.25
2392	2393	2694.375
2393	2393	2695.5
2394	2399	2696.625
2395	2399	2697.75
2396	2399	2698.875
2397	2399	2700
2398	2399	2701.125
2399	2399	2702.25
2400	2411	2703.375
2401	2411	2704.5

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2402	2411	2705.625
2403	2411	2706.75
2404	2411	2707.875
2405	2411	2709
2406	2411	2710.125
2407	2411	2711.25
2408	2411	2712.375
2409	2411	2713.5
2410	2411	2714.625
2411	2411	2715.75
2412	2417	2716.875
2413	2417	2718
2414	2417	2719.125
2415	2417	2720.25
2416	2417	2721.375
2417	2417	2722.5
2418	2423	2723.625
2419	2423	2724.75
2420	2423	2725.875
2421	2423	2727
2422	2423	2728.125
2423	2423	2729.25
2424	2437	2730.375
2425	2437	2731.5
2426	2437	2732.625
2427	2437	2733.75
2428	2437	2734.875
2429	2437	2736
2430	2437	2737.125
2431	2437	2738.25
2432	2437	2739.375
2433	2437	2740.5
2434	2437	2741.625
2435	2437	2742.75
2436	2437	2743.875
2437	2437	2745
2438	2441	2746.125
2439	2441	2747.25
2440	2441	2748.375
2441	2441	2749.5
2442	2447	2750.625
2443	2447	2751.75
2444	2447	2752.875
2445	2447	2754
2446	2447	2755.125

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2447	2447	2756.25
2448	2459	2757.375
2449	2459	2758.5
2450	2459	2759.625
2451	2459	2760.75
2452	2459	2761.875
2453	2459	2763
2454	2459	2764.125
2455	2459	2765.25
2456	2459	2766.375
2457	2459	2767.5
2458	2459	2768.625
2459	2459	2769.75
2460	2467	2770.875
2461	2467	2772
2462	2467	2773.125
2463	2467	2774.25
2464	2467	2775.375
2465	2467	2776.5
2466	2467	2777.625
2467	2473	2778.75
2468	2473	2779.875
2469	2473	2781
2470	2473	2782.125
2471	2473	2783.25
2472	2473	2784.375
2473	2473	2785.5
2474	2477	2786.625
2475	2477	2787.75
2476	2477	2788.875
2477	2477	2790
2478	2503	2791.125
2479	2503	2792.25
2480	2503	2793.375
2481	2503	2794.5
2482	2503	2795.625
2483	2503	2796.75
2484	2503	2797.875
2485	2503	2799
2486	2503	2800.125
2487	2503	2801.25
2488	2503	2802.375
2489	2503	2803.5
2490	2503	2804.625
2491	2503	2805.75

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2492	2503	2806.875
2493	2503	2808
2494	2503	2809.125
2495	2503	2810.25
2496	2503	2811.375
2497	2503	2812.5
2498	2503	2813.625
2499	2503	2814.75
2500	2503	2815.875
2501	2503	2817
2502	2503	2818.125
2503	2503	2819.25
2504	2521	2820.375
2505	2521	2821.5
2506	2521	2822.625
2507	2521	2823.75
2508	2521	2824.875
2509	2521	2826
2510	2521	2827.125
2511	2521	2828.25
2512	2521	2829.375
2513	2521	2830.5
2514	2521	2831.625
2515	2521	2832.75
2516	2521	2833.875
2517	2521	2835
2518	2521	2836.125
2519	2521	2837.25
2520	2521	2838.375
2521	2521	2839.5
2522	2531	2840.625
2523	2531	2841.75
2524	2531	2842.875
2525	2531	2844
2526	2531	2845.125
2527	2531	2846.25
2528	2531	2847.375
2529	2531	2848.5
2530	2531	2849.625
2531	2531	2850.75
2532	2539	2851.875
2533	2539	2853
2534	2539	2854.125
2535	2539	2855.25
2536	2539	2856.375

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2537	2539	2857.5
2538	2539	2858.625
2539	2539	2859.75
2540	2543	2860.875
2541	2543	2862
2542	2543	2863.125
2543	2543	2864.25
2544	2549	2865.375
2545	2549	2866.5
2546	2549	2867.625
2547	2549	2868.75
2548	2549	2869.875
2549	2549	2871
2550	2551	2872.125
2551	2551	2873.25
2552	2557	2874.375
2553	2557	2875.5
2554	2557	2876.625
2555	2557	2877.75
2556	2557	2878.875
2557	2557	2880
2558	2579	2881.125
2559	2579	2882.25
2560	2579	2883.375
2561	2579	2884.5
2562	2579	2885.625
2563	2579	2886.75
2564	2579	2887.875
2565	2579	2889
2566	2579	2890.125
2567	2579	2891.25
2568	2579	2892.375
2569	2579	2893.5
2570	2579	2894.625
2571	2579	2895.75
2572	2579	2896.875
2573	2579	2898
2574	2579	2899.125
2575	2579	2900.25
2576	2579	2901.375
2577	2579	2902.5
2578	2579	2903.625
2579	2579	2904.75
2580	2591	2905.875
2581	2591	2907

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2582	2591	2908.125
2583	2591	2909.25
2584	2591	2910.375
2585	2591	2911.5
2586	2591	2912.625
2587	2591	2913.75
2588	2591	2914.875
2589	2591	2916
2590	2591	2917.125
2591	2591	2918.25
2592	2593	2919.375
2593	2593	2920.5
2594	2609	2921.625
2595	2609	2922.75
2596	2609	2923.875
2597	2609	2925
2598	2609	2926.125
2599	2609	2927.25
2600	2609	2928.375
2601	2609	2929.5
2602	2609	2930.625
2603	2609	2931.75
2604	2609	2932.875
2605	2609	2934
2606	2609	2935.125
2607	2609	2936.25
2608	2609	2937.375
2609	2609	2938.5
2610	2617	2939.625
2611	2617	2940.75
2612	2617	2941.875
2613	2617	2943
2614	2617	2944.125
2615	2617	2945.25
2616	2617	2946.375
2617	2617	2947.5
2618	2621	2948.625
2619	2621	2949.75
2620	2621	2950.875
2621	2621	2952
2622	2633	2953.125
2623	2633	2954.25
2624	2633	2955.375
2625	2633	2956.5
2626	2633	2957.625

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2627	2633	2958.75
2628	2633	2959.875
2629	2633	2961
2630	2633	2962.125
2631	2633	2963.25
2632	2633	2964.375
2633	2633	2965.5
2634	2647	2966.625
2635	2647	2967.75
2636	2647	2968.875
2637	2647	2970
2638	2647	2971.125
2639	2647	2972.25
2640	2647	2973.375
2641	2647	2974.5
2642	2647	2975.625
2643	2647	2976.75
2644	2647	2977.875
2645	2647	2979
2646	2647	2980.125
2647	2647	2981.25
2648	2657	2982.375
2649	2657	2983.5
2650	2657	2984.625
2651	2657	2985.75
2652	2657	2986.875
2653	2657	2988
2654	2657	2989.125
2655	2657	2990.25
2656	2657	2991.375
2657	2657	2992.5
2658	2659	2993.625
2659	2659	2994.75
2660	2663	2995.875
2661	2663	2997
2662	2663	2998.125
2663	2663	2999.25
2664	2671	3000.375
2665	2671	3001.5
2666	2671	3002.625
2667	2671	3003.75
2668	2671	3004.875
2669	2671	3006
2670	2671	3007.125
2671	2671	3008.25

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2672	2677	3009.375
2673	2677	3010.5
2674	2677	3011.625
2675	2677	3012.75
2676	2677	3013.875
2677	2677	3015
2678	2683	3016.125
2679	2683	3017.25
2680	2683	3018.375
2681	2683	3019.5
2682	2683	3020.625
2683	2683	3021.75
2684	2687	3022.875
2685	2687	3024
2686	2687	3025.125
2687	2687	3026.25
2688	2689	3027.375
2689	2689	3028.5
2690	2693	3029.625
2691	2693	3030.75
2692	2693	3031.875
2693	2693	3033
2694	2699	3034.125
2695	2699	3035.25
2696	2699	3036.375
2697	2699	3037.5
2698	2699	3038.625
2699	2699	3039.75
2700	2707	3040.875
2701	2707	3042
2702	2707	3043.125
2703	2707	3044.25
2704	2707	3045.375
2705	2707	3046.5
2706	2707	3047.625
2707	2707	3048.75
2708	2711	3049.875
2709	2711	3051
2710	2711	3052.125
2711	2711	3053.25
2712	2713	3054.375
2713	2713	3055.5
2714	2719	3056.625
2715	2719	3057.75
2716	2719	3058.875

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2717	2719	3060
2718	2719	3061.125
2719	2719	3062.25
2720	2729	3063.375
2721	2729	3064.5
2722	2729	3065.625
2723	2729	3066.75
2724	2729	3067.875
2725	2729	3069
2726	2729	3070.125
2727	2729	3071.25
2728	2729	3072.375
2729	2729	3073.5
2730	2731	3074.625
2731	2731	3075.75
2732	2741	3076.875
2733	2741	3078
2734	2741	3079.125
2735	2741	3080.25
2736	2741	3081.375
2737	2741	3082.5
2738	2741	3083.625
2739	2741	3084.75
2740	2741	3085.875
2741	2741	3087
2742	2749	3088.125
2743	2749	3089.25
2744	2749	3090.375
2745	2749	3091.5
2746	2749	3092.625
2747	2749	3093.75
2748	2749	3094.875
2749	2749	3096
2750	2753	3097.125
2751	2753	3098.25
2752	2753	3099.375
2753	2753	3100.5
2754	2767	3101.625
2755	2767	3102.75
2756	2767	3103.875
2757	2767	3105
2758	2767	3106.125
2759	2767	3107.25
2760	2767	3108.375
2761	2767	3109.5

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2762	2767	3110.625
2763	2767	3111.75
2764	2767	3112.875
2765	2767	3114
2766	2767	3115.125
2767	2767	3116.25
2768	2777	3117.375
2769	2777	3118.5
2770	2777	3119.625
2771	2777	3120.75
2772	2777	3121.875
2773	2777	3123
2774	2777	3124.125
2775	2777	3125.25
2776	2777	3126.375
2777	2777	3127.5
2778	2789	3128.625
2779	2789	3129.75
2780	2789	3130.875
2781	2789	3132
2782	2789	3133.125
2783	2789	3134.25
2784	2789	3135.375
2785	2789	3136.5
2786	2789	3137.625
2787	2789	3138.75
2788	2789	3139.875
2789	2789	3141
2790	2791	3142.125
2791	2791	3143.25
2792	2797	3144.375
2793	2797	3145.5
2794	2797	3146.625
2795	2797	3147.75
2796	2797	3148.875
2797	2797	3150
2798	2801	3151.125
2799	2801	3152.25
2800	2801	3153.375
2801	2801	3154.5
2802	2803	3155.625
2803	2803	3156.75
2804	2819	3157.875
2805	2819	3159
2806	2819	3160.125

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2807	2819	3161.25
2808	2819	3162.375
2809	2819	3163.5
2810	2819	3164.625
2811	2819	3165.75
2812	2819	3166.875
2813	2819	3168
2814	2819	3169.125
2815	2819	3170.25
2816	2819	3171.375
2817	2819	3172.5
2818	2819	3173.625
2819	2819	3174.75
2820	2833	3175.875
2821	2833	3177
2822	2833	3178.125
2823	2833	3179.25
2824	2833	3180.375
2825	2833	3181.5
2826	2833	3182.625
2827	2833	3183.75
2828	2833	3184.875
2829	2833	3186
2830	2833	3187.125
2831	2833	3188.25
2832	2833	3189.375
2833	2833	3190.5
2834	2837	3191.625
2835	2837	3192.75
2836	2837	3193.875
2837	2837	3195
2838	2843	3196.125
2839	2843	3197.25
2840	2843	3198.375
2841	2843	3199.5
2842	2843	3200.625
2843	2843	3201.75
2844	2851	3202.875
2845	2851	3204
2846	2851	3205.125
2847	2851	3206.25
2848	2851	3207.375
2849	2851	3208.5
2850	2851	3209.625
2851	2851	3210.75

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2852	2857	3211.875
2853	2857	3213
2854	2857	3214.125
2855	2857	3215.25
2856	2857	3216.375
2857	2857	3217.5
2858	2861	3218.625
2859	2861	3219.75
2860	2861	3220.875
2861	2861	3222
2862	2879	3223.125
2863	2879	3224.25
2864	2879	3225.375
2865	2879	3226.5
2866	2879	3227.625
2867	2879	3228.75
2868	2879	3229.875
2869	2879	3231
2870	2879	3232.125
2871	2879	3233.25
2872	2879	3234.375
2873	2879	3235.5
2874	2879	3236.625
2875	2879	3237.75
2876	2879	3238.875
2877	2879	3240
2878	2879	3241.125
2879	2879	3242.25
2880	2887	3243.375
2881	2887	3244.5
2882	2887	3245.625
2883	2887	3246.75
2884	2887	3247.875
2885	2887	3249
2886	2887	3250.125
2887	2887	3251.25
2888	2897	3252.375
2889	2897	3253.5
2890	2897	3254.625
2891	2897	3255.75
2892	2897	3256.875
2893	2897	3258
2894	2897	3259.125
2895	2897	3260.25
2896	2897	3261.375

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2897	2897	3262.5
2898	2903	3263.625
2899	2903	3264.75
2900	2903	3265.875
2901	2903	3267
2902	2903	3268.125
2903	2903	3269.25
2904	2909	3270.375
2905	2909	3271.5
2906	2909	3272.625
2907	2909	3273.75
2908	2909	3274.875
2909	2909	3276
2910	2917	3277.125
2911	2917	3278.25
2912	2917	3279.375
2913	2917	3280.5
2914	2917	3281.625
2915	2917	3282.75
2916	2917	3283.875
2917	2917	3285
2918	2927	3286.125
2919	2927	3287.25
2920	2927	3288.375
2921	2927	3289.5
2922	2927	3290.625
2923	2927	3291.75
2924	2927	3292.875
2925	2927	3294
2926	2927	3295.125
2927	2927	3296.25
2928	2939	3297.375
2929	2939	3298.5
2930	2939	3299.625
2931	2939	3300.75
2932	2939	3301.875
2933	2939	3303
2934	2939	3304.125
2935	2939	3305.25
2936	2939	3306.375
2937	2939	3307.5
2938	2939	3308.625
2939	2939	3309.75
2940	2953	3310.875
2941	2953	3312

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2942	2953	3313.125
2943	2953	3314.25
2944	2953	3315.375
2945	2953	3316.5
2946	2953	3317.625
2947	2953	3318.75
2948	2953	3319.875
2949	2953	3321
2950	2953	3322.125
2951	2953	3323.25
2952	2953	3324.375
2953	2953	3325.5
2954	2957	3326.625
2955	2957	3327.75
2956	2957	3328.875
2957	2957	3330
2958	2963	3331.125
2959	2963	3332.25
2960	2963	3333.375
2961	2963	3334.5
2962	2963	3335.625
2963	2963	3336.75
2964	2969	3337.875
2965	2969	3339
2966	2969	3340.125
2967	2969	3341.25
2968	2969	3342.375
2969	2969	3343.5
2970	2971	3344.625
2971	2971	3345.75
2972	2999	3346.875
2973	2999	3348
2974	2999	3349.125
2975	2999	3350.25
2976	2999	3351.375
2977	2999	3352.5
2978	2999	3353.625
2979	2999	3354.75
2980	2999	3355.875
2981	2999	3357
2982	2999	3358.125
2983	2999	3359.25
2984	2999	3360.375
2985	2999	3361.5
2986	2999	3362.625

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
2987	2999	3363.75
2988	2999	3364.875
2989	2999	3366
2990	2999	3367.125
2991	2999	3368.25
2992	2999	3369.375
2993	2999	3370.5
2994	2999	3371.625
2995	2999	3372.75
2996	2999	3373.875
2997	2999	3375
2998	2999	3376.125
2999	2999	3377.25
3000	3001	3378.375
3001	3001	3379.5
3002	3011	3380.625
3003	3011	3381.75
3004	3011	3382.875
3005	3011	3384
3006	3011	3385.125
3007	3011	3386.25
3008	3011	3387.375
3009	3011	3388.5
3010	3011	3389.625
3011	3011	3390.75
3012	3019	3391.875
3013	3019	3393
3014	3019	3394.125
3015	3019	3395.25
3016	3019	3396.375
3017	3019	3397.5
3018	3019	3398.625
3019	3019	3399.75
3020	3023	3400.875
3021	3023	3402
3022	3023	3403.125
3023	3023	3404.25
3024	3037	3405.375
3025	3037	3406.5
3026	3037	3407.625
3027	3037	3408.75
3028	3037	3409.875
3029	3037	3411
3030	3037	3412.125
3031	3037	3413.25

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
3032	3037	3414.375
3033	3037	3415.5
3034	3037	3416.625
3035	3037	3417.75
3036	3037	3418.875
3037	3037	3420
3038	3041	3421.125
3039	3041	3422.25
3040	3041	3423.375
3041	3041	3424.5
3042	3049	3425.625
3043	3049	3426.75
3044	3049	3427.875
3045	3049	3429
3046	3049	3430.125
3047	3049	3431.25
3048	3049	3432.375
3049	3049	3433.5
3050	3061	3434.625
3051	3061	3435.75
3052	3061	3436.875
3053	3061	3438
3054	3061	3439.125
3055	3061	3440.25
3056	3061	3441.375
3057	3061	3442.5
3058	3061	3443.625
3059	3061	3444.75
3060	3061	3445.875
3061	3061	3447
3062	3067	3448.125
3063	3067	3449.25
3064	3067	3450.375
3065	3067	3451.5
3066	3067	3452.625
3067	3067	3453.75
3068	3079	3454.875
3069	3079	3456
3070	3079	3457.125
3071	3079	3458.25
3072	3079	3459.375
3073	3079	3460.5
3074	3079	3461.625
3075	3079	3462.75
3076	3079	3463.875

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
3077	3079	3465
3078	3079	3466.125
3079	3079	3467.25
3080	3083	3468.375
3081	3083	3469.5
3082	3083	3470.625
3083	3083	3471.75
3084	3089	3472.875
3085	3089	3474
3086	3089	3475.125
3087	3089	3476.25
3088	3089	3477.375
3089	3089	3478.5
3090	3109	3479.625
3091	3109	3480.75
3092	3109	3481.875
3093	3109	3483
3094	3109	3484.125
3095	3109	3485.25
3096	3109	3486.375
3097	3109	3487.5
3098	3109	3488.625
3099	3109	3489.75
3100	3109	3490.875
3101	3109	3492
3102	3109	3493.125
3103	3109	3494.25
3104	3109	3495.375
3105	3109	3496.5
3106	3109	3497.625
3107	3109	3498.75
3108	3109	3499.875
3109	3109	3501
3110	3119	3502.125
3111	3119	3503.25
3112	3119	3504.375
3113	3119	3505.5
3114	3119	3506.625
3115	3119	3507.75
3116	3119	3508.875
3117	3119	3510
3118	3119	3511.125
3119	3119	3512.25
3120	3121	3513.375
3121	3121	3514.5

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
3122	3137	3515.625
3123	3137	3516.75
3124	3137	3517.875
3125	3137	3519
3126	3137	3520.125
3127	3137	3521.25
3128	3137	3522.375
3129	3137	3523.5
3130	3137	3524.625
3131	3137	3525.75
3132	3137	3526.875
3133	3137	3528
3134	3137	3529.125
3135	3137	3530.25
3136	3137	3531.375
3137	3137	3532.5
3138	3163	3533.625
3139	3163	3534.75
3140	3163	3535.875
3141	3163	3537
3142	3163	3538.125
3143	3163	3539.25
3144	3163	3540.375
3145	3163	3541.5
3146	3163	3542.625
3147	3163	3543.75
3148	3163	3544.875
3149	3163	3546
3150	3163	3547.125
3151	3163	3548.25
3152	3163	3549.375
3153	3163	3550.5
3154	3163	3551.625
3155	3163	3552.75
3156	3163	3553.875
3157	3163	3555
3158	3163	3556.125
3159	3163	3557.25
3160	3163	3558.375
3161	3163	3559.5
3162	3163	3560.625
3163	3163	3561.75
3164	3167	3562.875
3165	3167	3564
3166	3167	3565.125

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
3167	3167	3566.25
3168	3169	3567.375
3169	3169	3568.5
3170	3181	3569.625
3171	3181	3570.75
3172	3181	3571.875
3173	3181	3573
3174	3181	3574.125
3175	3181	3575.25
3176	3181	3576.375
3177	3181	3577.5
3178	3181	3578.625
3179	3181	3579.75
3180	3181	3580.875
3181	3181	3582
3182	3187	3583.125
3183	3187	3584.25
3184	3187	3585.375
3185	3187	3586.5
3186	3187	3587.625
3187	3187	3588.75
3188	3191	3589.875
3189	3191	3591
3190	3191	3592.125
3191	3191	3593.25
3192	3203	3594.375
3193	3203	3595.5
3194	3203	3596.625
3195	3203	3597.75
3196	3203	3598.875
3197	3203	3600
3198	3203	3601.125
3199	3203	3602.25
3200	3203	3603.375
3201	3203	3604.5
3202	3203	3605.625
3203	3203	3606.75
3204	3209	3607.875
3205	3209	3609
3206	3209	3610.125
3207	3209	3611.25
3208	3209	3612.375
3209	3209	3613.5
3210	3217	3614.625
3211	3217	3615.75

Continued on next page...

n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
3212	3217	3616.875
3213	3217	3618
3214	3217	3619.125
3215	3217	3620.25
3216	3217	3621.375
3217	3217	3622.5
3218	3221	3623.625
3219	3221	3624.75
3220	3221	3625.875
3221	3221	3627
3222	3229	3628.125
3223	3229	3629.25
3224	3229	3630.375
3225	3229	3631.5
3226	3229	3632.625
3227	3229	3633.75
3228	3229	3634.875
3229	3229	3636
3230	3251	3637.125
3231	3251	3638.25
3232	3251	3639.375
3233	3251	3640.5
3234	3251	3641.625
3235	3251	3642.75
3236	3251	3643.875
3237	3251	3645
3238	3251	3646.125
3239	3251	3647.25
3240	3251	3648.375
3241	3251	3649.5
3242	3251	3650.625
3243	3251	3651.75
3244	3251	3652.875
3245	3251	3654
3246	3251	3655.125
3247	3251	3656.25
3248	3251	3657.375
3249	3251	3658.5
3250	3251	3659.625
3251	3251	3660.75
3252	3253	3661.875
3253	3253	3663
3254	3257	3664.125
3255	3257	3665.25
3256	3257	3666.375

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n	Example of prime in the interval $[n, 9(n+3)/8]$	$9(n+3)/8$
3257	3257	3667.5
3258	3259	3668.625
3259	3259	3669.75
3260	3271	3670.875
3261	3271	3672
3262	3271	3673.125
3263	3271	3674.25
3264	3271	3675.375
3265	3271	3676.5
3266	3271	3677.625
3267	3271	3678.75
3268	3271	3679.875
3269	3271	3681
3270	3271	3682.125
3271	3271	3683.25
3272	3299	3684.375
3273	3299	3685.5
3274	3299	3686.625

5. BREUSCH'S INTERVAL CONCLUSION

We have proved that Breusch's interval $[n, 9(n+3)/8]$ contains at least one prime number for every positive integer n .

$$\pi \left[n, \frac{9(n+3)}{8} \right] \geq 1, \forall n \in \mathbb{Z}^+$$

REFERENCES

- [1] Dusart, Pierre, *Autour de la fonction qui compte le nombre de nombres premiers*, Ph.D. thesis, Université de Limoges, 1998.