

M. George CANTOR

Professeur à l'Université de Halle.

VÉRIFICATION JUSQU'A 1000 DU THÉORÈME EMPIRIQUE DE GOLDBACH [19 c]

— Séance du 10 août 1894 —

Il y a environ dix ans, j'ai fait calculer pour tous les nombres pairs de 2 à 1000, une table qui contient toutes les partitions de ces nombres en deux nombres premiers.

On arrive par l'examen de cette table, donnant aussi le nombre des décompositions, à la conviction que non seulement la proposition est exacte, mais encore que le nombre des décompositions de $2N$ croît indéfiniment avec N (sauf les oscillations qui se produisent toujours dans les fonctions relatives à la théorie des nombres).

TABLEAU DES DÉCOMPOSITIONS DES NOMBRES PAIRS $2N$, DE 2 A 1000,
EN SOMMES DE DEUX NOMBRES PREMIERS

(Si $2N = x + y$, avec $x < y$, le tableau donne x , le plus petit des deux nombres premiers).
(La dernière colonne indique le nombre n des décompositions.)

$2N$	x	n	$2N$	x	n
2	1.	1	20	1, 3, 7.	3
4	1, 2.	2	22	3, 5, 11.	3
6	1, 3.	2	24	1, 5, 7, 11.	4
8	1, 3.	2	26	3, 7, 13.	3
10	3, 5.	2	28	5, 11.	2
12	1, 5.	2	30	1, 7, 11, 13.	4
14	1, 3, 7.	3	32	1, 3, 13.	3
16	3, 5.	2	34	3, 5, 11, 17.	4
18	1, 5, 7.	3	36	5, 7, 13, 17.	4

$2N$	x	n	$2N$	x	n
38	1, 7, 19.	3	122	13, 19, 43, 61.	4
40	3, 11, 17.	3	124	11, 17, 23, 41, 53.	5
42	1, 5, 11, 13, 19.	5	126	13, 17, 19, 23, 29, 37, 43, 47, 53, 59.	10
44	1, 3, 7, 13.	4	128	1, 19, 31, 61.	4
46	3, 5, 17, 23.	4	130	3, 17, 23, 29, 41, 47, 59.	7
48	1, 5, 7, 11, 17, 19.	6	132	1, 5, 19, 23, 29, 31, 43, 53, 59, 61.	10
50	3, 7, 13, 19.	4	134	3, 7, 31, 37, 61, 67.	6
52	5, 11, 23.	3	136	5, 23, 29, 47, 53.	5
54	1, 7, 11, 13, 17, 23.	6	138	1, 7, 11, 29, 31, 37, 41, 59, 67.	9
56	3, 13, 19.	3	140	1, 3, 13, 31, 37, 43, 61, 67.	8
58	5, 11, 17, 29.	4	142	3, 5, 11, 29, 41, 53, 59, 71.	8
60	1, 7, 13, 17, 19, 23, 29.	7	144	5, 7, 13, 17, 31, 37, 41, 43, 47, 61, 71.	11
62	1, 3, 19, 31.	4	146	7, 19, 37, 43, 67, 73.	6
64	3, 5, 11, 17, 23.	5	148	11, 17, 41, 47, 59.	5
66	5, 7, 13, 19, 23, 29.	6	150	1, 11, 13, 19, 23, 37, 41, 43, 47, 53, 61, 67, 71.	13
68	1, 7, 31.	3	152	1, 3, 13, 43, 73.	5
70	3, 11, 17, 23, 29.	5	154	3, 5, 17, 23, 41, 47, 53, 71.	8
72	1, 5, 11, 13, 19, 29, 31.	7	156	5, 7, 17, 19, 29, 43, 47, 53, 59, 67, 73.	11
74	1, 3, 7, 13, 31, 37.	6	158	1, 7, 19, 31, 61, 73, 79.	7
76	3, 5, 17, 23, 29.	5	160	3, 11, 23, 29, 47, 53, 59, 71.	8
78	5, 7, 11, 17, 19, 31, 37.	7	162	5, 11, 13, 23, 31, 53, 59, 61, 73, 79.	10
80	1, 7, 13, 19, 37.	5	164	1, 7, 13, 37, 61, 67.	6
82	3, 11, 23, 29, 41.	5	166	3, 17, 29, 53, 59, 83.	6
84	1, 5, 11, 13, 17, 23, 31, 37, 41.	9	168	1, 5, 11, 17, 19, 29, 31, 37, 41, 59, 61, 67, 71, 79.	14
86	3, 7, 13, 19, 43.	5	170	3, 7, 13, 19, 31, 43, 61, 67, 73.	9
88	5, 17, 29, 41.	4	172	5, 23, 41, 59, 71, 83.	6
90	1, 7, 11, 17, 19, 23, 29, 31, 37, 43.	10	174	1, 7, 11, 17, 23, 37, 43, 47, 61, 67, 71, 73.	12
92	3, 13, 19, 31.	4	176	3, 13, 19, 37, 67, 73, 79.	7
94	5, 11, 23, 41, 47.	5	178	5, 11, 29, 41, 47, 71, 89.	7
96	7, 13, 17, 23, 29, 37, 43.	7	180	1, 7, 13, 17, 23, 29, 31, 41, 43, 53, 67, 71, 73, 79, 83.	15
98	1, 19, 31, 37.	4	182	1, 3, 19, 31, 43, 73, 79.	7
100	3, 11, 17, 29, 41, 47.	6			
102	1, 5, 13, 19, 23, 29, 31, 41, 43.	9			
104	1, 3, 7, 31, 37, 43.	6			
106	3, 5, 17, 23, 47, 53.	9			
108	1, 5, 7, 11, 19, 29, 37, 41, 47.	9			
110	1, 3, 7, 13, 31, 37, 43.	7			
112	3, 5, 11, 23, 29, 41, 53.	7			
114	1, 5, 7, 11, 13, 17, 31, 41, 43, 47, 53.	11			
116	3, 7, 13, 19, 37, 43.	6			
118	5, 11, 18, 29, 47, 59.	6			
120	7, 11, 13, 17, 19, 23, 31, 37, 41, 47, 53, 59.	12			

$2N$	x	n	$2N$	x	n
184	3, 5, 11, 17, 47, 53, 71, 83.	8	228	1, 5, 17, 29, 31, 37, 47, 61, 71, 79, 89, 97, 107.	13
186	5, 7, 13, 19, 23, 29, 37, 47, 59, 73, 79, 83, 89.	13	230	1, 3, 7, 19, 31, 37, 67, 73, 79, 103.	10
188	7, 31, 37, 61, 79.	5	232	3, 5, 41, 53, 59, 83, 101.	7
190	11, 17, 23, 41, 53, 59, 83, 89.	8	234	1, 5, 7, 11, 23, 37, 41, 43, 53, 61, 67, 71, 83, 97, 103, 107.	16
192	1, 11, 13, 19, 29, 41, 43, 53, 61, 79, 83, 89.	12	236	3, 7, 13, 37, 43, 73, 79, 97, 109.	9
194	1, 3, 13, 31, 37, 43, 67, 97.	8	238	5, 11, 41, 47, 59, 71, 89, 101, 107.	9
196	3, 5, 17, 23, 29, 47, 59, 86, 89.	9	240	1, 7, 11, 13, 17, 29, 41, 43, 47, 59, 61, 67, 73, 83, 89, 101, 103, 109, 113.	19
198	1, 5, 7, 17, 19, 31, 41, 47, 59, 61, 67, 71, 89, 97.	14	242	1, 3, 13, 19, 31, 43, 61, 79, 103.	9
200	1, 3, 7, 19, 37, 43, 61, 73, 97.	9	244	3, 5, 11, 17, 47, 53, 71, 107, 113.	9
202	3, 5, 11, 23, 29, 53, 71, 89, 101.	9	246	5, 7, 13, 17, 19, 23, 47, 53, 67, 73, 79, 83, 89, 97, 107, 109.	16
204	5, 7, 11, 13, 23, 31, 37, 41, 47, 53, 67, 73, 97, 101.	14	248	7, 19, 37, 67, 97, 109.	6
206	7, 13, 43, 67, 79, 97, 103.	7	250	11, 17, 23, 53, 59, 71, 83, 101, 113.	9
208	11, 17, 29, 41, 59, 71, 101.	7	252	1, 11, 13, 19, 23, 29, 41, 53, 59, 61, 71, 73, 79, 89, 101, 103, 113.	17
210	11, 13, 17, 19, 29, 31, 37, 43, 47, 53, 59, 61, 71, 73, 79, 83, 97, 101, 103.	19	254	3, 13, 31, 43, 61, 73, 97, 103, 127.	9
212	1, 13, 19, 31, 61, 73, 103.	7	256	5, 17, 23, 29, 59, 83, 89, 107.	8
214	3, 17, 23, 41, 47, 83, 101, 107.	8	258	1, 7, 17, 19, 29, 31, 47, 59, 61, 67, 79, 101, 107, 109, 127.	15
216	5, 17, 19, 23, 37, 43, 53, 59, 67, 79, 89, 103, 107.	13	260	3, 19, 31, 37, 61, 67, 79, 97, 103, 109.	10
218	7, 19, 37, 61, 67, 79, 109.	7	262	5, 11, 23, 29, 71, 83, 89, 113, 131.	9
220	23, 29, 41, 47, 53, 71, 83, 89, 107.	9	264	1, 7, 13, 23, 31, 37, 41, 53, 67, 71, 73, 83, 97, 101, 107, 113, 127.	17
222	11, 23, 29, 31, 41, 43, 59, 71, 73, 83, 109.	11	266	3, 37, 43, 67, 73, 103, 109, 127.	8
224	1, 13, 31, 43, 61, 67, 73, 97.	8	268	5, 11, 17, 29, 41, 71, 89, 101, 131.	9
226	3, 29, 47, 53, 59, 89, 113.	7			

2 N	x	n	2 N.	x	n
270	1, 7, 13, 19, 29, 31, 37, 41, 43, 47, 59, 71, 73, 79, 89, 97, 103, 107, 113, 131.	20	306	13, 23, 29, 37, 43, 67, 73, 79, 83, 107, 109, 113, 127, 139, 149.	15
272	1, 3, 31, 43, 61, 73, 79, 109.	8	308	1, 31, 37, 67, 79, 97, 109, 127, 151.	9
274	3, 5, 11, 17, 23, 41, 47, 83, 101, 107, 137.	11	310	3, 17, 29, 41, 47, 53, 59, 71, 83, 113, 131, 137.	12
276	5, 7, 13, 19, 37, 43, 47, 53, 79, 83, 97, 103, 109, 113, 127, 137.	16	312	1, 5, 19, 29, 31, 41, 43, 61, 71, 73, 79, 83, 89, 101, 113, 131, 139, 149.	18
278	1, 7, 37, 67, 79, 97, 127, 139.	8	314	1, 3, 7, 31, 37, 43, 73, 103, 151, 157.	10
280	3, 11, 17, 23, 29, 41, 47, 53, 83, 89, 101, 107, 113, 131.	14	316	3, 5, 23, 47, 53, 59, 83, 89, 137, 149.	10
282	1, 5, 11, 13, 19, 31, 41, 43, 53, 59, 71, 83, 89, 101, 103, 109, 131.	17	318	1, 5, 7, 11, 37, 41, 48, 61, 67, 79, 89, 107, 127, 137, 139, 151.	16
284	1, 3, 7, 13, 43, 61, 73, 103, 127.	9	320	3, 7, 13, 37, 43, 79, 97, 109, 127, 139, 157.	11
286	3, 5, 17, 23, 29, 47, 53, 59, 89, 107, 113, 137.	12	322	5, 11, 29, 41, 53, 59, 71, 83, 89, 131, 149.	11
288	5, 7, 11, 17, 19, 31, 37, 47, 59, 61, 89, 97, 107, 109, 131, 137, 139.	17	324	7, 11, 13, 17, 31, 41, 43, 47, 53, 61, 67, 73, 83, 97, 101, 113, 127, 131, 151, 157.	20
290	7, 13, 19, 61, 67, 79, 97, 109, 127, 139.	10	326	13, 19, 43, 97, 103, 127, 163.	7
292	11, 23, 29, 41, 53, 59, 101, 113.	8	328	11, 17, 47, 59, 71, 89, 101, 131, 137, 149.	10
294	1, 11, 13, 17, 23, 31, 37, 43, 53, 61, 67, 71, 83, 97, 101, 103, 113, 127, 131, 137.	20	330	13, 17, 19, 23, 37, 47, 53, 59, 61, 67, 73, 79, 89, 97, 101, 103, 107, 131, 137, 139, 149, 151, 157, 163.	24
296	3, 13, 19, 67, 73, 97, 103, 139.	8	332	1, 19, 61, 103, 109, 139, 151.	7
298	5, 17, 29, 41, 47, 59, 71, 101, 107, 131, 149.	11	334	3, 17, 23, 41, 53, 71, 83, 101, 107, 137, 167.	11
300	7, 17, 19, 23, 29, 31, 37, 43, 59, 61, 67, 71, 73, 89, 101, 103, 107, 109, 127, 137, 149.	21	336	5, 19, 23, 29, 43, 53, 59, 67, 73, 79, 97, 103, 107, 109, 113, 137, 139, 157, 163.	19
302	19, 31, 61, 73, 79, 103, 109, 139, 151.	9	338	1, 7, 31, 61, 67, 97, 109, 127, 139, 157.	10
304	11, 23, 41, 47, 53, 71, 107, 113, 131, 137.	10	340	3, 23, 29, 47, 59, 47, 59, 71, 83, 89, 101, 107, 113, 149, 167.	15

2 N	x	n	2 N	x	n
342	5, 11, 29, 31, 59, 61, 71, 73, 79, 101, 103, 109, 113, 131, 149, 151, 163.	17	348	1, 11, 17, 31, 37, 41, 67, 71, 79, 97, 107, 109, 137, 149, 151, 157, 167.	17
344	7, 13, 31, 37, 61, 67, 73, 103, 151, 163.	10	350	1, 3, 13, 19, 37, 43, 67, 73, 79, 109, 127, 139, 151, 157.	14
346	29, 53, 83, 89, 107, 113, 149, 167, 173.	9			
2 N	x	n			
352	3, 5, 41, 59, 71, 83, 89, 101, 113, 173.	10			
354	1, 5, 7, 17, 23, 37, 41, 43, 47, 61, 71, 73, 83, 97, 103, 113, 127, 131, 157, 163, 173.	21			
356	3, 7, 19, 43, 73, 79, 127, 157, 163.	9			
358	5, 4, 41, 47, 89, 101, 107, 131, 167, 179.	10			
360	1, 7, 11, 13, 23, 29, 43, 47, 53, 67, 79, 83, 89, 97, 103, 109, 127, 131, 137, 149, 163, 167, 179.	23			
362	3, 13, 31, 79, 139, 151, 163, 181.	8			
364	5, 11, 17, 47, 53, 71, 83, 101, 107, 113, 131, 137, 167, 173.	14			
366	7, 13, 17, 19, 29, 53, 59, 73, 83, 89, 97, 103, 109, 127, 137, 139, 167, 173.	18			
368	1, 19, 31, 37, 61, 97, 127, 139, 157.	9			
370	3, 11, 17, 23, 53, 59, 89, 101, 107, 113, 131, 137, 173, 179.	14			
372	5, 13, 19, 23, 41, 59, 61, 79, 89, 101, 103, 109, 131, 139, 149, 173, 179, 181.	18			
374	1, 7, 37, 43, 61, 67, 97, 103, 151, 163, 181.	11			
376	3, 17, 23, 29, 59, 83, 107, 113, 137, 149, 179.	11			
378	5, 11, 19, 29, 31, 41, 47, 61, 67, 71, 97, 101, 107, 109, 127, 137, 139, 141, 151, 167, 179, 181.	22			
380	1, 7, 13, 31, 43, 67, 73, 97, 103, 109, 139, 151, 157, 181.	14			
382	3, 23, 29, 71, 89, 101, 113, 131, 149, 191.	10			
384	1, 5, 11, 17, 31, 37, 47, 53, 67, 71, 73, 101, 103, 107, 113, 127, 151, 157, 173, 191.	20			
386	3, 7, 13, 19, 37, 73, 79, 103, 109, 157, 163, 193.	12			
388	5, 29, 41, 71, 107, 131, 137, 149, 191.	9			
390	1, 7, 11, 17, 23, 31, 37, 41, 43, 53, 59, 73, 79, 83, 97, 107, 109, 113, 127, 139, 149, 151, 157, 163, 167, 179, 191, 193.	28			
392	3, 13, 19, 43, 61, 79, 109, 151, 163, 181, 193.	11			
394	5, 11, 41, 47, 83, 101, 113, 131, 137, 167, 197.	11			
396	7, 13, 17, 23, 29, 37, 43, 47, 59, 79, 83, 89, 103, 113, 127, 139, 157, 163, 167, 173, 197.	21			
398	1, 19, 31, 61, 67, 127, 157, 199.	8			
400	3, 11, 17, 41, 47, 53, 83, 89, 107, 131, 137, 149, 167, 173.	14			
402	1, 5, 13, 19, 23, 29, 43, 53, 71, 89, 109, 131, 139, 151, 163, 173, 179, 191.	18			
404	3, 7, 31, 37, 67, 73, 97, 127, 163, 181, 193.	11			
406	5, 17, 23, 47, 53, 59, 89, 113, 137, 149, 167, 173, 179.	13			

2 N	x	n
408	7, 11, 19, 29, 41, 59, 61, 71, 97, 101, 127, 131, 137, 139, 151, 157, 167, 179, 181, 197.	20
410	1, 13, 31, 37, 43, 61, 73, 79, 97, 103, 127, 139, 181, 191.	14
412	3, 11, 23, 29, 53, 59, 101, 131, 149, 173, 179.	11
414	5, 13, 17, 31, 41, 47, 61, 67, 83, 97, 101, 103, 107, 131, 137, 151, 157, 163, 173, 181, 191.	21
416	7, 19, 37, 43, 67, 79, 103, 109, 139, 193.	10
418	17, 29, 59, 71, 101, 107, 137, 149, 167, 179, 191.	11
420	1, 11, 19, 23, 31, 37, 41, 47, 53, 61, 67, 71, 73, 83, 89, 103, 107, 109, 113, 127, 137, 139, 149, 151, 157, 163, 179, 181, 191, 193, 197.	31
422	1, 3, 13, 43, 73, 109, 139, 151, 181, 193, 199, 211.	12
424	3, 5, 23, 41, 71, 107, 113, 131, 167, 173, 191, 197.	12
426	5, 7, 17, 29, 37, 43, 47, 53, 59, 67, 73, 79, 89, 109, 113, 149, 157, 163, 193, 197, 199.	21
428	7, 19, 31, 61, 79, 97, 151, 157, 199.	9
430	11, 29, 41, 47, 71, 83, 113, 137, 149, 167, 173, 179, 191, 197.	14
432	1, 11, 13, 23, 31, 43, 53, 59, 73, 79, 83, 101, 139, 149, 151, 163, 181, 191, 193, 199.	20
434	1, 3, 13, 37, 61, 67, 97, 103, 127, 151, 157, 163, 193, 211.	14
436	3, 5, 17, 47, 53, 83, 89, 167, 173, 179, 197.	11
438	5, 7, 17, 19, 29, 37, 41, 59, 71, 79, 89, 101, 107, 127, 131, 157, 167, 181, 197, 199, 211.	21
440	1, 7, 19, 31, 43, 61, 67, 73, 103, 109, 127, 157, 163, 199, 211.	15
442	3, 11, 23, 41, 53, 59, 83, 89, 131, 149, 173, 179, 191.	13
444	1, 5, 11, 13, 23, 43, 47, 61, 71, 97, 107, 113, 127, 131, 137, 151, 163, 167, 173, 181, 193, 211.	22
446	3, 7, 13, 37, 67, 73, 79, 97, 109, 139, 163, 223.	12
448	5, 17, 29, 47, 59, 89, 101, 131, 137, 167, 179, 191, 197.	13
450	1, 7, 11, 17, 19, 29, 31, 41, 53, 61, 67, 71, 83, 97, 101, 103, 113, 137, 139, 157, 167, 173, 179, 181, 193, 199, 211, 223.	28
452	3, 13, 19, 31, 43, 73, 79, 103, 139, 181, 211, 223.	12
454	5, 11, 23, 53, 71, 101, 107, 137, 173, 191, 197, 227.	12
456	7, 13, 17, 23, 37, 47, 59, 67, 73, 83, 89, 97, 103, 107, 109, 139, 149, 163, 173, 179, 193, 199, 223, 227.	24
458	1, 19, 37, 61, 79, 109, 127, 151, 181, 229.	10
460	3, 11, 17, 29, 41, 59, 71, 101, 107, 113, 149, 167, 179, 191, 197, 227.	16
462	1, 5, 13, 19, 23, 29, 31, 41, 43, 53, 61, 73, 79, 83, 89, 103, 109, 113, 131, 149, 151, 179, 181, 191, 193, 199, 211, 223, 229.	29
464	1, 3, 7, 31, 43, 67, 97, 127, 151, 157, 181, 193, 223.	13
466	3, 5, 17, 23, 47, 83, 107, 113, 149, 173, 197, 227, 233.	13
468	1, 5, 7, 11, 19, 29, 37, 47, 59, 67, 71, 79, 89, 101, 109, 131, 137, 151, 157, 191, 197, 199, 211, 227, 229.	25
470	3, 7, 13, 31, 37, 61, 73, 97, 103, 139, 157, 163, 193, 199, 229.	15
472	5, 11, 23, 29, 41, 53, 71, 83, 89, 113, 179, 191, 233.	13
474	7, 11, 13, 17, 31, 41, 43, 53, 73, 101, 107, 127, 137, 157, 163, 167, 181, 191, 193, 197, 211, 223, 233.	23
476	13, 19, 37, 43, 67, 79, 97, 103, 109, 127, 139, 163, 193, 199.	14
478	11, 17, 29, 47, 59, 89, 131, 167, 197, 227, 239.	11

$2N$	x	n
480	1, 13, 17, 19, 23, 31, 31, 37, 41, 47, 59, 61, 71, 79, 83, 97, 101, 107, 113, 127, 131, 149, 163, 167, 173, 197, 199, 211, 223, 229, 239.	30
482	3, 19, 43, 61, 73, 103, 109, 151, 199, 211, 241.	11
484	5, 17, 23, 41, 53, 83, 101, 131, 137, 167, 173, 191, 227, 233.	14
486	7, 19, 23, 29, 37, 43, 47, 53, 67, 89, 97, 103, 107, 113, 127, 137, 139, 149, 173, 179, 193, 223, 229.	23
488	1, 31, 67, 79, 109, 139, 151, 157, 181, 211.	10
490	3, 11, 23, 29, 41, 47, 59, 71, 89, 101, 107, 131, 137, 173, 179, 197, 227, 233, 239.	19
492	1, 5, 13, 29, 31, 43, 53, 59, 61, 71, 73, 83, 103, 109, 113, 131, 179, 181, 191, 211, 223, 229, 241.	23
494	3, 7, 32, 37, 61, 73, 97, 127, 157, 163, 181, 211, 223.	13
496	5, 17, 29, 47, 53, 107, 113, 137, 149, 179, 227, 233, 239.	13
498	7, 11, 19, 31, 37, 41, 59, 67, 79, 89, 97, 101, 109, 131, 139, 149, 151, 167, 181, 191, 227, 229, 241.	23
500	1, 13, 37, 43, 61, 67, 79, 103, 127, 151, 163, 193, 223, 229.	14
502	3, 11, 23, 41, 53, 59, 71, 83, 101, 113, 149, 191, 233, 239, 251.	15
504	1, 5, 13, 17, 37, 41, 43, 47, 61, 71, 73, 83, 103, 107, 131, 137, 151, 157, 167, 173, 191, 193, 197, 211, 223, 227, 233, 241.	28
506	3, 7, 19, 43, 67, 73, 97, 109, 127, 139, 157, 193, 199, 223, 229.	15
508	5, 17, 29, 41, 47, 59, 89, 107, 149, 191, 197, 227, 239, 251.	14
510	1, 7, 11, 19, 23, 31, 43, 47, 53, 61, 67, 71, 79, 89, 101, 109, 113, 127, 131, 137, 151, 157, 163, 173, 179, 193, 197, 191, 227, 229, 233, 239, 241.	33
512	3, 13, 73, 79, 103, 139, 163, 181, 191, 229, 241.	11
514	5, 11, 23, 47, 53, 71, 83, 113, 131, 167, 197, 233, 251, 257.	14
516	7, 13, 17, 29, 37, 53, 59, 67, 73, 83, 97, 107, 127, 137, 149, 157, 163, 167, 179, 199, 223, 233, 239.	23
518	19, 31, 61, 79, 97, 109, 139, 151, 181, 211, 241.	11
520	11, 17, 29, 41, 53, 59, 71, 89, 101, 131, 137, 167, 173, 227, 239, 251, 257.	17
522	1, 13, 19, 23, 31, 43, 59, 61, 73, 79, 83, 89, 101, 103, 113, 139, 149, 163, 173, 191, 211, 229, 239, 241, 251.	25
524	1, 3, 37, 61, 67, 103, 127, 131, 157, 193, 211, 241.	12
526	3, 5, 17, 23, 47, 59, 83, 107, 137, 167, 173, 179, 233, 257, 263.	15
528	5, 7, 19, 29, 37, 41, 61, 67, 71, 79, 89, 97, 109, 127, 131, 139, 149, 179, 181, 191, 197, 218, 251, 257.	25
530	7, 31, 43, 67, 73, 97, 109, 151, 157, 163, 181, 193, 199, 223.	14
532	11, 23, 29, 41, 53, 71, 83, 89, 101, 113, 131, 149, 173, 179, 239, 251, 263.	17
534	11, 13, 31, 43, 47, 67, 71, 73, 101, 103, 113, 137, 151, 167, 181, 197, 223, 227, 241, 251, 257, 263.	22
536	13, 37, 73, 79, 97, 103, 127, 139, 157, 163, 199, 223, 229.	13
538	17, 29, 47, 59, 71, 89, 107, 139, 149, 179, 191, 227, 257, 269.	14
540	17, 19, 31, 37, 41, 53, 61, 73, 79, 83, 97, 101, 107, 109, 131, 139, 151, 157, 167, 173, 181, 191, 193, 223, 227, 229, 233, 237, 263, 269.	30

$2N$	x	n
542	1, 19, 43, 79, 103, 109, 163, 193, 211, 229, 271.	11
544	3, 23, 41, 53, 83, 101, 113, 191, 197, 227, 233, 251, 263.	13
546	5, 23, 37, 43, 47, 59, 67, 79, 83, 89, 97, 103, 107, 113, 127, 137, 149, 157, 163, 167, 173, 179, 193, 197, 199, 229, 233, 239, 263, 269.	30
548	1, 7, 61, 109, 127, 139, 151, 181, 191, 211, 241, 271.	12
550	3, 29, 41, 47, 59, 71, 83, 89, 101, 107, 131, 149, 167, 191, 197, 233, 239, 257, 269.	19
552	5, 11, 29, 31, 43, 53, 61, 73, 89, 103, 109, 113, 131, 151, 163, 173, 179, 193, 199, 239, 241, 269, 271.	23
554	7, 13, 31, 67, 97, 157, 181, 223, 241, 271, 277.	11
556	47, 53, 89, 107, 113, 137, 167, 173, 197, 239, 263.	11
558	1, 11, 17, 37, 59, 67, 71, 79, 97, 101, 109, 127, 137, 139, 149, 157, 179, 191, 199, 211, 227, 241, 251, 277.	24
560	3, 13, 19, 37, 61, 73, 97, 103, 127, 139, 151, 163, 181, 193, 211, 223, 229, 277.	18
562	5, 41, 53, 59, 71, 83, 101, 113, 131, 173, 179, 251, 269, 281.	14
564	1, 7, 17, 23, 41, 43, 61, 73, 97, 101, 103, 107, 131, 163, 167, 181, 191, 197, 211, 227, 233, 251, 257, 271, 281.	25
566	3, 19, 43, 67, 79, 103, 109, 127, 157, 193, 199, 229, 283.	13
568	5, 11, 47, 59, 89, 101, 107, 137, 149, 167, 179, 251, 257.	13
570	1, 7, 13, 23, 29, 47, 61, 67, 71, 79, 83, 103, 107, 109, 113, 127, 131, 137, 139, 149, 151, 173, 181, 191, 197, 211, 223, 233, 239, 257, 263, 277.	32
572	1, 3, 31, 73, 109, 139, 151, 163, 193, 199, 223, 241.	12
574	3, 5, 11, 17, 53, 71, 83, 107, 113, 131, 173, 191, 227, 257, 263, 281.	16
576	5, 7, 13, 19, 29, 53, 67, 73, 89, 97, 109, 113, 127, 137, 157, 167, 179, 193, 197, 223, 227, 229, 239, 263, 269, 283.	26
578	1, 7, 31, 37, 79, 139, 157, 181, 199, 211, 229, 241, 271.	13
580	3, 11, 17, 23, 59, 71, 89, 101, 113, 131, 137, 149, 179, 191, 197, 227, 233, 263, 269.	19
582	5, 11, 13, 19, 41, 59, 61, 73, 79, 83, 103, 139, 149, 151, 163, 173, 181, 193, 199, 223, 229, 233, 251, 269, 271.	25
584	7, 13, 37, 43, 61, 97, 127, 151, 163, 211, 271, 277.	12
586	17, 23, 29, 83, 107, 137, 167, 197, 227, 233, 239, 269, 293.	13
588	1, 11, 17, 19, 31, 41, 47, 67, 79, 89, 97, 101, 109, 127, 131, 139, 149, 157, 167, 179, 191, 199, 219, 239, 241, 251, 257, 271, 277, 281.	30
590	3, 13, 19, 43, 67, 103, 127, 151, 157, 181, 193, 211, 223, 241, 277, 283.	16
592	5, 23, 29, 71, 83, 89, 101, 113, 131, 149, 173, 191, 233, 239, 281.	15
594	1, 7, 17, 23, 31, 37, 47, 53, 71, 73, 103, 107, 127, 131, 137, 151, 163, 173, 193, 197, 211, 227, 241, 257, 263, 277, 281, 283.	28
596	3, 19, 73, 97, 109, 139, 157, 163, 199, 223, 229, 283.	12
598	5, 11, 29, 41, 89, 107, 131, 137, 149, 167, 179, 197, 239, 251, 281.	15
600	1, 7, 13, 23, 29, 31, 37, 43, 53, 59, 79, 97, 101, 109, 113, 137, 139, 151, 157, 167, 179, 181, 191, 199, 211, 227, 233, 241, 251, 243, 269, 283, 293.	33

$2N$	x	n
602	1, 3, 31, 61, 79, 103, 139, 163, 181, 193, 223, 229, 271.	13
604	3, 5, 11, 17, 41, 47, 83, 101, 113, 137, 173, 251, 257, 293.	14
606	5, 7, 13, 19, 29, 37, 43, 59, 83, 97, 103, 107, 127, 139, 149, 157, 163, 167, 173, 197, 223, 227, 233, 239, 257, 269, 293.	27
608	1, 7, 31, 37, 61, 67, 109, 151, 199, 211, 229, 241, 271, 279.	14
610	3, 11, 17, 23, 41, 47, 53, 89, 101, 107, 131, 149, 167, 179, 191, 227, 251, 257, 263, 293.	20
612	5, 11, 13, 19, 41, 43, 71, 89, 103, 109, 113, 149, 151, 163, 173, 179, 181, 191, 193, 211, 223, 229, 233, 239, 263, 281.	26
614	1, 7, 13, 37, 43, 67, 73, 127, 151, 157, 181, 193, 241, 277, 283, 307.	16
616	3, 17, 23, 29, 47, 53, 59, 107, 113, 137, 149, 167, 173, 197, 227, 233, 257, 263, 269.	19
618	1, 5, 11, 17, 19, 31, 41, 47, 61, 71, 97, 109, 127, 131, 139, 151, 157, 179, 197, 199, 229, 239, 251, 269, 271, 281, 307.	27
620	1, 3, 7, 13, 19, 43, 73, 79, 97, 157, 163, 181, 199, 211, 223, 241, 271, 283, 307.	19
622	3, 5, 23, 29, 53, 59, 101, 113, 131, 173, 179, 191, 233, 239, 263, 269, 311.	17
624	5, 7, 11, 17, 23, 31, 37, 47, 53, 61, 67, 83, 101, 103, 137, 157, 163, 167, 181, 191, 193, 223, 227, 241, 251, 257, 271, 277, 293, 307, 311.	31
626	7, 13, 19, 79, 103, 127, 139, 163, 193, 229, 277, 313.	12
628	11, 29, 41, 59, 71, 107, 137, 149, 167, 179, 197, 227, 239, 269, 281, 311.	16
630	11, 13, 17, 23, 29, 31, 37, 43, 53, 59, 61, 67, 73, 83, 89, 107, 109, 127, 131, 139, 151, 163, 167, 173, 181, 191, 197, 199, 211, 229, 233, 241, 251, 257, 263, 271, 277, 281, 283, 293, 313.	41
632	1, 13, 19, 31, 61, 109, 193, 199, 211, 223, 283.	11
634	3, 17, 41, 47, 71, 113, 131, 167, 173, 191, 233, 251, 281, 317.	14
636	5, 17, 19, 23, 29, 37, 43, 59, 67, 73, 79, 89, 113, 127, 137, 149, 157, 173, 179, 193, 197, 227, 239, 257, 263, 269, 277, 283.	28
638	7, 19, 31, 37, 61, 67, 97, 139, 151, 181, 199, 229, 241, 271, 307.	15
640	23, 41, 47, 53, 71, 83, 131, 137, 149, 173, 179, 191, 297, 239, 251, 257, 281, 293.	18
642	1, 11, 23, 29, 41, 43, 71, 73, 79, 101, 139, 151, 163, 179, 181, 193, 199, 211, 223, 233, 241, 263, 269, 283, 293, 311.	26
644	1, 3, 13, 31, 37, 43, 67, 73, 97, 103, 157, 181, 211, 223, 271, 277, 307, 313.	18
646	3, 5, 29, 47, 53, 59, 83, 89, 137, 167, 179, 197, 227, 257, 263, 293.	16
648	1, 5, 7, 17, 29, 31, 41, 47, 61, 71, 79, 101, 107, 127, 139, 149, 157, 181, 191, 199, 227, 229, 239, 251, 269, 281, 311, 317.	28
650	3, 7, 19, 31, 37, 43, 73, 79, 103, 109, 127, 151, 163, 193, 211, 229, 241, 271, 277, 283, 313.	21
652	5, 11, 53, 59, 83, 89, 131, 149, 173, 191, 233, 251, 263, 269, 293.	15

2 N	x	n
654	1, 7, 11, 13, 23, 37, 41, 47, 53, 61, 67, 83, 97, 107, 113, 131, 151, 163, 167, 191, 193, 197, 211, 223, 233, 257, 271, 281, 307, 317.	30
656	3, 13, 37, 43, 79, 109, 157, 193, 199, 223, 277, 283, 307.	13
658	5, 11, 17, 41, 59, 71, 89, 101, 137, 149, 167, 179, 191, 197, 227, 239, 257, 269, 311.	19
660	1, 7, 13, 17, 19, 29, 41, 43, 47, 53, 59, 61, 67, 73, 83, 89, 97, 103, 113, 137, 139, 151, 157, 173, 181, 193, 197, 199, 211, 227, 229, 239, 241, 251, 263, 271, 277, 281, 293, 307, 311, 313.	42
662	1, 3, 19, 31, 43, 61, 139, 163, 199, 223, 229, 241, 283, 313, 331.	15
664	3, 5, 11, 17, 23, 47, 71, 101, 107, 173, 197, 233, 263, 281, 311, 317.	16
666	5, 7, 13, 19, 23, 47, 53, 59, 67, 73, 79, 89, 97, 103, 109, 157, 163, 167, 179, 199, 223, 227, 233, 257, 269, 277, 283, 293, 307, 313, 317.	31
668	7, 37, 61, 67, 97, 127, 181, 211, 229, 271, 331.	11
670	11, 17, 23, 29, 53, 71, 83, 101, 107, 113, 149, 167, 179, 191, 227, 239, 251, 269, 281, 311, 317.	21
672	11, 13, 19, 29, 31, 41, 53, 59, 71, 73, 79, 101, 103, 109, 131, 149, 151, 163, 173, 181, 193, 211, 223, 229, 233, 239, 241, 251, 263, 271, 283, 293, 313.	33
674	1, 13, 31, 41, 63, 67, 73, 97, 103, 127, 151, 211, 241, 277, 307, 337.	16
676	3, 17, 23, 29, 59, 83, 89, 107, 113, 167, 173, 197, 227, 233, 257, 293, 317.	17
678	1, 5, 7, 19, 31, 37, 47, 59, 67, 71, 79, 101, 107, 109, 131, 137, 157, 179, 191, 199, 211, 229, 239, 257, 269, 277, 281, 311, 331.	29
680	3, 7, 19, 37, 61, 67, 73, 79, 103, 109, 139, 157, 181, 193, 223, 241, 271, 283, 307, 313, 331.	21
682	5, 23, 29, 41, 83, 89, 113, 173, 179, 191, 233, 239, 251, 263, 283, 292.	16
684	1, 7, 11, 23, 31, 37, 41, 43, 53, 67, 71, 83, 97, 107, 113, 127, 137, 163, 181, 193, 197, 223, 227, 241, 251, 263, 283, 311, 317, 331, 337.	31
686	3, 13, 43, 67, 73, 79, 109, 139, 163, 199, 223, 229, 277, 307, 313, 337.	16
688	5, 11, 29, 41, 47, 71, 89, 101, 131, 167, 179, 197, 227, 239, 257, 269.	16
690	7, 13, 17, 29, 31, 37, 43, 47, 59, 71, 73, 83, 89, 97, 103, 113, 127, 149, 167, 181, 191, 199, 211, 223, 227, 229, 233, 241, 251, 257, 269, 271, 281, 293, 307, 311, 317, 331, 337.	39
692	1, 19, 31, 61, 73, 79, 151, 193, 229, 271, 283, 313.	12
694	3, 11, 17, 41, 47, 53, 101, 107, 131, 137, 173, 191, 227, 233, 251, 263, 293, 311, 347.	19
696	5, 13, 19, 23, 37, 43, 53, 79, 83, 89, 97, 103, 109, 127, 139, 149, 173, 193, 197, 229, 233, 239, 257, 263, 277, 307, 313, 317, 337, 347.	30

$2N$	x	n
698	7, 37, 67, 79, 97, 127, 151, 157, 199, 211, 241, 277, 331, 349.	14
700	17, 23, 41, 47, 53, 59, 83, 101, 107, 113, 131, 137, 179, 191, 197, 233, 239, 251, 257, 269, 281, 311, 317, 347.	24
702	1, 11, 19, 29, 41, 43, 59, 61, 71, 83, 89, 101, 103, 109, 131, 139, 179, 181, 193, 199, 211, 223, 239, 241, 263, 269, 271, 281, 283, 293, 313, 349.	32
704	3, 13, 37, 43, 61, 73, 97, 103, 127, 157, 163, 181, 241, 271, 283, 307, 331, 337.	18
706	5, 23, 29, 47, 53, 59, 89, 107, 113, 137, 149, 197, 227, 239, 257, 263, 317, 347, 353.	19
708	7, 17, 31, 47, 61, 67, 89, 101, 107, 109, 131, 137, 139, 151, 167, 199, 229, 241, 251, 269, 277, 307, 311, 343.	24
710	1, 19, 37, 67, 79, 97, 103, 109, 139, 167, 211, 223, 271, 277, 313, 331, 337.	17
712	3, 11, 29, 53, 59, 71, 113, 149, 191, 233, 251, 263, 269, 281, 293, 311, 353.	17
714	5, 13, 23, 31, 37, 41, 53, 61, 67, 71, 73, 83, 97, 101, 107, 113, 127, 137, 151, 157, 167, 173, 191, 193, 211, 223, 227, 251, 257, 271, 281, 283, 293, 313, 317, 331, 347.	37
716	7, 43, 73, 97, 103, 109, 139, 193, 229, 277, 283, 307, 337, 349.	14
718	17, 41, 59, 71, 101, 131, 149, 197, 227, 239, 251, 257, 269, 317, 359.	15
720	1, 11, 19, 29, 37, 43, 47, 59, 61, 67, 73, 79, 89, 101, 103, 107, 113, 127, 149, 151, 157, 163, 173, 179, 197, 199, 211, 229, 233, 241, 257, 263, 271, 277, 281, 311, 331, 337, 347, 353.	40
722	3, 13, 31, 61, 79, 103, 109, 151, 181, 199, 223, 283, 313, 349.	14
724	5, 23, 41, 47, 71, 83, 107, 131, 137, 167, 233, 257, 263, 281, 293.	15
726	7, 17, 43, 53, 67, 73, 79, 89, 107, 109, 113, 127, 139, 149, 157, 163, 179, 223, 227, 239, 263, 269, 277, 283, 293, 307, 317, 337, 347, 353, 359.	31
728	1, 19, 37, 67, 97, 109, 127, 151, 157, 181, 229, 241, 271, 307, 331, 349.	16
730	3, 11, 29, 47, 53, 71, 83, 89, 113, 131, 137, 167, 173, 227, 239, 251, 263, 269, 281, 311, 347.	21
732	5, 13, 23, 31, 41, 59, 71, 73, 79, 89, 101, 113, 131, 139, 163, 191, 211, 223, 229, 233, 241, 269, 271, 283, 293, 311, 313, 331, 349, 353, 359.	31
734	1, 7, 43, 61, 73, 103, 127, 157, 163, 193, 211, 271, 277, 313, 337, 367.	16
736	3, 17, 53, 59, 83, 89, 137, 149, 167, 173, 179, 227, 233, 257, 269, 293, 317, 347, 353.	19
738	5, 11, 19, 29, 37, 47, 61, 79, 97, 107, 131, 137, 139, 151, 167, 181, 191, 197, 229, 239, 251, 271, 277, 281, 307, 317, 337, 349, 359.	29
740	1, 7, 13, 31, 67, 79, 97, 109, 127, 139, 163, 193, 199, 241, 277, 283, 307, 331, 367.	19
742	3, 23, 41, 59, 83, 89, 101, 149, 173, 179, 233, 239, 251, 263, 281, 293, 311, 353, 359.	19

2 N	x	n
744	1, 5, 11, 17, 43, 53, 61, 67, 71, 83, 97, 101, 103, 113, 127, 131, 137, 151, 157, 167, 173, 181, 197, 223, 241, 257, 277, 281, 283, 311, 313, 347.	32
746	3, 7, 13, 19, 37, 73, 103, 127, 139, 199, 223, 283, 307, 312, 337, 349, 367, 373.	18
748	5, 29, 47, 71, 89, 101, 107, 131, 149, 179, 191, 227, 239, 257, 269, 281, 317, 347, 359.	19
750	7, 11, 17, 23, 31, 41, 59, 67, 73, 89, 97, 103, 107, 109, 131, 137, 149, 151, 157, 163, 173, 179, 181, 193, 227, 229, 241, 251, 263, 271, 283, 293, 307, 311, 317, 331, 349, 353, 367.	39
752	1, 13, 19, 43, 61, 79, 109, 139, 151, 181, 211, 229, 313, 331, 373.	16
754	3, 11, 53, 71, 101, 107, 113, 137, 167, 191, 197, 233, 251, 263, 293, 311, 353.	18
756	5, 13, 17, 23, 29, 37, 47, 73, 79, 83, 97, 103, 109, 113, 137, 139, 149, 157, 163, 179, 193, 199, 233, 257, 269, 227, 293, 307, 313, 317, 337, 347, 359, 367, 373.	35
758	1, 7, 19, 31, 67, 97, 127, 139, 151, 157, 181, 211, 271, 287, 349, 379.	17
760	3, 17, 41, 59, 83, 101, 107, 113, 167, 173, 191, 197, 239, 251, 257, 269, 281, 293, 311, 317, 359.	22
762	1, 5, 11, 19, 23, 29, 43, 53, 61, 71, 79, 89, 101, 103, 109, 131, 149, 163, 191, 193, 199, 239, 241, 263, 271, 283, 313, 331, 353, 373, 379.	32
764	3, 7, 13, 31, 37, 73, 103, 151, 157, 163, 193, 223, 241, 277, 307, 331, 367.	18
766	5, 23, 47, 83, 89, 107, 113, 149, 167, 173, 179, 197, 257, 263, 317, 347, 383.	18
768	7, 11, 17, 29, 41, 59, 67, 107, 109, 127, 137, 149, 151, 167, 181, 191, 197, 199, 211, 227, 269, 277, 281, 307, 311, 337, 347, 349, 359, 367, 379.	32
770	1, 3, 13, 19, 31, 37, 43, 61, 79, 97, 109, 127, 139, 151, 157, 163, 193, 199, 223, 229, 271, 283, 307, 313, 331, 337, 349, 373.	28
772	3, 11, 29, 53, 71, 89, 113, 131, 173, 179, 251, 263, 269, 281, 293, 311, 353, 383.	19
774	1, 5, 13, 17, 23, 31, 41, 47, 73, 83, 97, 101, 113, 127, 131, 157, 167, 173, 181, 197, 211, 227, 233, 251, 271, 283, 307, 311, 313, 317, 331, 353, 373.	34
776	3, 7, 19, 37, 43, 67, 103, 157, 163, 199, 229, 277, 313, 337, 367, 379.	17
778	5, 17, 39, 101, 131, 137, 179, 191, 257, 269, 311, 317, 347, 359, 389.	15
780	7, 11, 19, 23, 29, 37, 41, 47, 53, 61, 71, 79, 89, 97, 103, 107, 127, 137, 139, 149, 163, 167, 173, 179, 181, 193, 211, 223, 233, 239, 257, 271, 277, 281, 293, 313, 317, 331, 337, 347, 349, 359, 379, 383.	44
782	13, 31, 43, 73, 109, 139, 151, 163, 181, 211, 241, 283, 349, 373.	14
784	11, 23, 41, 83, 101, 107, 131, 137, 167, 191, 197, 227, 263, 281, 293, 317, 353, 383.	18

$2N$	ω	n
786	13, 17, 29, 43, 47, 53, 59, 67, 103, 109, 113, 127, 139, 167, 173, 179, 193, 199, 223, 227, 239, 263, 277, 283, 307, 337, 347, 353, 367, 389.	30
788	1, 19, 31, 37, 61, 79, 97, 127, 157, 181, 211, 241, 331, 349, 367, 379.	16
790	3, 17, 29, 47, 71, 89, 107, 113, 131, 137, 149, 173, 191, 197, 227, 233, 269, 281, 311, 347, 359, 389.	22
792	5, 19, 23, 31, 41, 53, 59, 73, 83, 101, 109, 131, 139, 149, 151, 173, 179, 191, 193, 199, 223, 229, 251, 269, 271, 283, 293, 313, 331, 349, 353, 359, 373, 383.	34
794	7, 37, 43, 61, 67, 103, 151, 163, 181, 193, 223, 271, 307, 331, 337, 373, 397.	17
796	23, 53, 113, 137, 149, 179, 197, 227, 233, 239, 293, 317, 347, 353.	14
798	1, 11, 29, 37, 41, 47, 59, 71, 79, 89, 97, 107, 137, 139, 151, 157, 167, 179, 181, 191, 197, 199, 211, 227, 229, 241, 251, 257, 277, 307, 311, 331, 337, 349, 359, 367, 379, 389, 397.	39
800	3, 13, 31, 43, 61, 67, 73, 109, 127, 139, 157, 181, 193, 199, 223, 229, 277, 313, 337, 367, 379.	21
802	5, 29, 41, 59, 83, 101, 149, 233, 239, 281, 293, 311, 353, 359, 383, 401.	16
804	7, 17, 31, 43, 47, 53, 61, 71, 103, 113, 127, 131, 151, 157, 163, 173, 191, 197, 211, 227, 233, 241, 257, 261, 281, 283, 313, 317, 337, 347, 373, 383.	32
806	19, 37, 67, 73, 79, 97, 163, 193, 199, 229, 283, 307, 349, 367, 373, 397.	16
808	11, 47, 89, 107, 131, 149, 167, 191, 239, 251, 317, 347, 359, 389.	14
810	1, 13, 23, 37, 41, 53, 59, 67, 71, 83, 101, 109, 127, 137, 149, 151, 157, 163, 167, 179, 191, 193, 197, 211, 223, 233, 239, 241, 263, 269, 307, 311, 331, 347, 349, 353, 367, 379, 389, 401.	40
812	1, 3, 43, 61, 73, 79, 103, 139, 151, 181, 193, 191, 211, 241, 271, 313, 349, 373, 379.	19
814	3, 5, 17, 41, 53, 71, 113, 131, 137, 167, 173, 197, 227, 251, 257, 293, 311, 347, 353, 383.	20
816	5, 7, 19, 29, 43, 47, 59, 73, 83, 89, 97, 107, 139, 157, 163, 173, 197, 199, 223, 229, 239, 269, 293, 307, 313, 317, 337, 349, 353, 359, 367, 373, 383, 397.	34
818	7, 31, 61, 67, 79, 109, 127, 157, 199, 211, 241, 271, 277, 331, 379, 397, 409.	17
820	11, 23, 47, 59, 101, 137, 167, 173, 179, 227, 233, 251, 257, 263, 311, 317, 353, 359, 389, 401.	20
822	1, 11, 13, 53, 61, 79, 83, 89, 103, 113, 131, 139, 149, 163, 179, 181, 191, 223, 229, 251, 281, 313, 331, 359, 373, 379, 383, 389, 401.	30
824	1, 3, 13, 37, 67, 73, 97, 151, 163, 181, 193, 211, 223, 277, 283, 337, 367.	17
826	3, 5, 17, 29, 53, 83, 107, 149, 167, 173, 179, 227, 233, 236, 257, 263, 269, 317, 347, 359, 383.	21

2 N	x	n
828	1, 5, 7, 17, 19, 31, 41, 59, 67, 71, 89, 101, 109, 127, 137, 151, 167, 181, 197, 211, 227, 229, 241, 251, 257, 271, 281, 307, 337, 349, 367, 379, 389, 397, 409.	35
830	1, 3, 7, 19, 43, 61, 73, 79, 97, 103, 139, 157, 199, 211, 223, 229, 283, 307, 331, 367, 373, 397, 409.	23
832	3, 5, 11, 23, 59, 71, 89, 113, 131, 149, 173, 179, 191, 193, 239, 263, 269, 311, 353, 383, 389, 401.	22
834	5, 7, 11, 13, 23, 37, 47, 61, 73, 83, 101, 107, 151, 157, 173, 181, 191, 193, 227, 233, 241, 257, 263, 271, 277, 293, 311, 313, 331, 347, 367, 373, 401.	33
836	7, 13, 67, 79, 97, 103, 109, 127, 163, 193, 223, 229, 313, 337, 349, 373, 379, 397.	18
838	11, 17, 29, 41, 137, 179, 191, 197, 239, 251, 269, 281, 317, 347, 359, 389, 419.	17
840	1, 11, 13, 17, 19, 29, 31, 43, 53, 67, 71, 79, 83, 89, 97, 101, 107, 113, 131, 139, 149, 157, 163, 167, 179, 181, 193, 197, 199, 223, 227, 233, 239, 241, 263, 269, 271, 277, 283, 293, 317, 331, 337, 349, 353, 373, 379, 383, 397, 401, 407, 419.	52
842	3, 13, 19, 31, 73, 103, 109, 151, 181, 199, 211, 223, 229, 241, 271, 379, 409, 421.	18
844	5, 17, 23, 47, 71, 83, 101, 167, 191, 197, 227, 251, 257, 281, 353, 383, 401.	17
846	7, 17, 19, 23, 37, 59, 73, 89, 103, 107, 113, 127, 137, 163, 173, 193, 199, 227, 229, 233, 239, 269, 277, 283, 337, 347, 359, 367, 379, 383, 389, 397.	32
848	19, 37, 61, 79, 97, 109, 139, 157, 229, 241, 271, 277, 307, 349, 409.	15
850	11, 23, 29, 41, 53, 89, 107, 131, 149, 167, 173, 191, 197, 233, 251, 257, 263, 281, 293, 347, 359, 383, 389, 401, 419.	25
852	13, 23, 29, 31, 41, 43, 79, 83, 101, 109, 113, 151, 179, 191, 193, 199, 211, 233, 239, 251, 281, 283, 311, 331, 349, 353, 373, 389, 409, 419, 421.	31
854	1, 31, 43, 67, 97, 103, 127, 163, 181, 193, 211, 223, 241, 277, 283, 307, 313, 331, 367, 397, 421.	21
856	3, 17, 29, 47, 59, 83, 113, 137, 173, 179, 197, 239, 257, 263, 269, 293, 347, 353, 389.	19
858	1, 5, 19, 29, 31, 37, 47, 61, 71, 89, 97, 101, 107, 131, 139, 149, 157, 167, 181, 197, 199, 211, 227, 239, 241, 251, 257, 271, 281, 311, 317, 337, 349, 359, 367, 379, 397, 401, 409, 419.	40
860	1, 3, 7, 31, 37, 73, 103, 109, 127, 151, 199, 229, 241, 283, 313, 337, 373, 397, 421.	19
862	3, 5, 23, 41, 53, 89, 101, 179, 263, 269, 293, 353, 359, 383, 401, 419, 431.	17
864	1, 5, 7, 11, 29, 37, 41, 43, 53, 67, 103, 107, 113, 131, 137, 163, 173, 181, 191, 211, 223, 233, 251, 257, 263, 271, 277, 293, 307, 317, 373, 397, 401, 421, 431.	35
866	3, 7, 13, 37, 43, 79, 97, 109, 127, 139, 157, 193, 223, 367, 379, 409, 433.	17

$2N$	x	n
868	5, 11, 41, 47, 59, 71, 107, 149, 167, 191, 227, 251, 269, 281, 311, 347, 359, 389, 401, 419.	20
870	7, 11, 13, 17, 31, 41, 43, 47, 59, 61, 73, 83, 97, 101, 109, 113, 127, 131, 137, 151, 179, 193, 197, 211, 223, 227, 229, 239, 251, 257, 263, 269, 271, 277, 283, 293, 307, 313, 347, 349, 367, 379, 383, 409, 421, 431.	46
872	13, 19, 43, 61, 103, 139, 163, 181, 199, 211, 229, 241, 271, 331, 349, 373, 409, 433.	18
874	11, 17, 47, 53, 101, 113, 131, 173, 191, 197, 227, 233, 257, 281, 311, 317, 353, 383, 431.	19
876	13, 17, 19, 23, 37, 47, 53, 67, 79, 89, 103, 107, 137, 149, 157, 167, 193, 199, 223, 229, 233, 257, 263, 269, 277, 283, 307, 313, 353, 367, 373, 389, 397, 409, 419, 433.	36
878	1, 19, 67, 109, 127, 139, 151, 271, 277, 307, 331, 337, 379, 421, 439.	15
880	3, 17, 23, 41, 53, 59, 71, 83, 107, 137, 179, 197, 227, 233, 239, 263, 281, 293, 311, 317, 359, 389, 401, 419, 431.	25
882	1, 5, 19, 23, 29, 43, 53, 59, 61, 71, 73, 109, 113, 131, 139, 149, 163, 173, 181, 191, 199, 223, 229, 239, 241, 251, 263, 269, 281, 283, 311, 313, 359, 373, 379, 383, 419, 427, 433, 439.	40
884	1, 3, 7, 31, 61, 73, 97, 127, 151, 157, 193, 211, 223, 241, 271, 277, 283, 307, 313, 337, 397, 421.	22
886	3, 5, 23, 29, 47, 59, 89, 113, 127, 167, 227, 233, 239, 269, 293, 317, 383, 419, 443.	19
888	1, 5, 7, 11, 29, 31, 59, 61, 67, 79, 101, 127, 131, 137, 149, 179, 197, 211, 227, 229, 241, 257, 269, 271, 281, 311, 317, 331, 347, 367, 379, 389, 397, 401, 409, 421, 431, 439.	38
890	3, 7, 13, 31, 37, 61, 67, 79, 103, 139, 151, 157, 163, 181, 199, 229, 271, 277, 283, 313, 349, 367, 433.	23
892	5, 11, 29, 53, 71, 83, 131, 149, 173, 191, 233, 239, 251, 293, 383, 289, 401, 431, 443.	19
894	7, 11, 13, 17, 31, 37, 41, 67, 71, 73, 83, 97, 107, 137, 151, 167, 193, 211, 233, 241, 251, 263, 277, 281, 293, 307, 317, 331, 337, 347, 353, 373, 431, 433.	34
896	13, 19, 37, 43, 67, 73, 109, 139, 157, 163, 223, 277, 283, 349, 373, 397, 409, 433, 439.	19
898	11, 17, 41, 59, 71, 89, 101, 137, 179, 197, 239, 251, 257, 281, 311, 389, 419, 431, 449.	19
900	13, 17, 19, 23, 37, 41, 43, 47, 61, 71, 73, 79, 89, 103, 113, 127, 131, 139, 149, 157, 167, 173, 181, 191, 199, 223, 227, 239, 241, 257, 269, 281, 283, 293, 307, 313, 331, 337, 353, 359, 379, 397, 401, 409, 421, 433, 439, 443.	48
902	19, 43, 73, 79, 151, 163, 193, 211, 229, 241, 271, 283, 331, 379, 439.	15
904	17, 23, 41, 47, 83, 107, 131, 227, 251, 257, 263, 311, 317, 347, 383, 401, 443.	17
906	19, 23, 29, 43, 47, 53, 67, 79, 83, 97, 109, 137, 149, 163, 167, 173, 179, 197, 223, 229, 233, 263, 293, 307, 313, 337, 349, 359, 383, 397, 419, 439, 443, 449.	34

$2N$	x	n
908	1, 31, 79, 97, 139, 151, 157, 181, 199, 277, 307, 331, 337, 367, 409, 421.	16
910	3, 23, 29, 47, 53, 71, 83, 89, 101, 113, 137, 149, 167, 191, 227, 233, 251, 257, 263, 269, 293, 311, 317, 347, 353, 389, 401, 419, 431, 443, 449.	31
912	1, 5, 29, 31, 53, 59, 73, 83, 89, 101, 103, 139, 151, 173, 179, 193, 211, 229, 239, 251, 269, 271, 281, 293, 311, 313, 349, 389, 409, 421, 433, 449.	32
914	3, 7, 31, 37, 61, 103, 127, 157, 163, 181, 223, 241, 271, 283, 307, 313, 337, 367, 373, 457.	20
916	5, 29, 53, 59, 89, 107, 173, 197, 233, 239, 257, 263, 269, 317, 347, 353, 359, 449.	18
918	7, 11, 31, 37, 41, 59, 61, 79, 89, 97, 107, 109, 131, 149, 157, 167, 179, 191, 199, 227, 241, 257, 271, 277, 311, 317, 331, 347, 349, 397, 409, 419, 431, 439, 457.	35
920	1, 13, 37, 43, 61, 67, 97, 109, 151, 163, 181, 193, 211, 229, 277, 307, 313, 349, 373, 379, 397, 421, 433, 457.	24
922	3, 11, 41, 59, 83, 101, 113, 149, 179, 239, 263, 269, 281, 353, 359, 401, 419, 431, 443, 461.	20
924	5, 13, 17, 37, 41, 43, 47, 61, 67, 71, 97, 101, 103, 113, 127, 137, 151, 163, 167, 173, 181, 191, 197, 223, 233, 241, 251, 263, 271, 277, 281, 283, 293, 307, 311, 317, 331, 337, 347, 353, 367, 383, 401, 421, 433, 457, 461.	47
926	7, 19, 43, 67, 73, 97, 103, 139, 157, 193, 199, 283, 307, 313, 349, 379, 439, 463.	18
928	17, 41, 47, 71, 89, 101, 107, 131, 167, 227, 251, 269, 281, 311, 359, 419, 449, 461.	18
930	1, 11, 19, 23, 43, 47, 53, 67, 71, 73, 101, 103, 107, 109, 157, 173, 179, 191, 197, 211, 229, 239, 257, 269, 271, 277, 283, 311, 313, 317, 331, 337, 353, 359, 367, 373, 383, 389, 409, 421, 431, 439, 443, 463.	44
932	3, 13, 73, 79, 103, 109, 163, 181, 193, 199, 223, 241, 271, 313, 331, 409, 433.	17
934	5, 23, 47, 53, 71, 107, 113, 137, 173, 191, 233, 251, 257, 281, 293, 317, 347, 431, 443, 467.	20
936	7, 17, 29, 35, 59, 73, 79, 83, 97, 107, 109, 113, 127, 139, 149, 163, 167, 179, 193, 197, 227, 263, 277, 283, 293, 317, 337, 349, 359, 367, 373, 379, 389, 433, 449, 457.	36
938	1, 19, 31, 61, 79, 109, 127, 151, 181, 199, 211, 229, 277, 307, 331, 337, 367, 397, 439.	19
940	3, 11, 29, 53, 59, 83, 101, 113, 131, 167, 179, 197, 239, 257, 263, 281, 293, 347, 353, 383, 419, 431, 449, 461.	24
942	1, 5, 13, 23, 31, 59, 61, 79, 83, 89, 103, 113, 131, 173, 181, 191, 199, 223, 233, 241, 251, 269, 281, 283, 311, 349, 373, 379, 401, 419, 421, 433, 439, 443, 463.	35
944	3, 7, 37, 61, 67, 157, 193, 211, 271, 283, 313, 331, 337, 367, 373, 397, 421, 457.	18

$2N$	x	n
946	5, 17, 59, 89, 107, 137, 149, 173, 227, 263, 269, 293, 347, 353, 359, 383, 389, 443, 467.	20
948	1, 7, 11, 19, 29, 37, 41, 61, 67, 71, 89, 109, 127, 137, 139, 151, 179, 197, 229, 239, 257, 277, 307, 317, 331, 347, 349, 379, 401, 439, 449, 457, 461.	34
950	3, 13, 31, 43, 67, 73, 97, 127, 139, 163, 181, 193, 199, 211, 223, 241, 277, 307, 331, 337, 349, 373, 379, 409, 463.	25
952	5, 11, 23, 41, 71, 89, 113, 131, 179, 191, 233, 251, 269, 293, 311, 353, 359, 383, 389, 431, 443, 449, 461.	23
954	1, 7, 13, 17, 43, 47, 67, 71, 73, 97, 101, 127, 131, 157, 167, 181, 193, 197, 211, 227, 263, 271, 277, 281, 293, 307, 311, 313, 337, 347, 353, 367, 383, 397, 431, 433, 463, 467.	38
956	3, 19, 37, 73, 79, 97, 103, 127, 199, 223, 229, 283, 313, 337, 349, 379, 409, 433, 457.	19
958	5, 11, 17, 29, 47, 71, 101, 131, 137, 149, 197, 257, 281, 311, 317, 359, 389, 401, 449, 467, 479.	22
960	7, 13, 19, 23, 31, 41, 53, 73, 79, 83, 97, 101, 103, 107, 131, 137, 139, 149, 151, 163, 173, 191, 199, 227, 233, 241, 251, 269, 277, 283, 307, 313, 317, 347, 353, 359, 367, 373, 383, 389, 397, 419, 439, 457, 461.	43
962	43, 79, 103, 109, 139, 151, 193, 211, 223, 229, 271, 331, 349, 421, 439, 463.	16
964	11, 17, 23, 53, 83, 101, 107, 137, 167, 191, 263, 281, 311, 317, 347, 401, 443, 461.	18
966	13, 19, 29, 37, 47, 59, 79, 83, 89, 103, 107, 109, 113, 127, 137, 139, 157, 179, 193, 197, 223, 227, 233, 239, 257, 283, 293, 307, 313, 347, 349, 363, 359, 367, 373, 379, 389, 397, 409, 419, 443, 457, 463, 467, 479.	45
968	1, 31, 61, 109, 139, 157, 181, 199, 211, 229, 241, 277, 307, 337, 349, 367, 397, 421.	18
970	3, 17, 23, 29, 41, 59, 83, 89, 107, 113, 131, 149, 173, 197, 227, 251, 269, 293, 311, 317, 353, 383, 401, 449, 461, 467, 479.	27
972	1, 5, 19, 31, 43, 53, 61, 89, 109, 113, 149, 151, 163, 199, 211, 229, 233, 239, 263, 271, 281, 311, 313, 331, 353, 359, 373, 379, 401, 409, 431, 449, 463.	33
974	3, 7, 37, 67, 97, 151, 163, 223, 241, 283, 313, 331, 367, 373, 397, 433, 487.	17
976	5, 23, 29, 47, 89, 113, 137, 149, 167, 179, 233, 257, 293, 317, 359, 383, 389, 419, 467.	19
978	1, 7, 11, 31, 37, 41, 59, 67, 71, 97, 101, 139, 149, 151, 157, 167, 181, 191, 227, 239, 251, 269, 277, 317, 331, 337, 337, 347, 359, 379, 401, 409, 421, 431, 457, 479, 487.	36
980	3, 13, 43, 61, 73, 97, 103, 127, 151, 157, 193, 211, 223, 229, 241, 271, 307, 337, 349, 367, 373, 379, 409, 433, 439, 457.	26
982	5, 11, 29, 41, 53, 71, 101, 173, 239, 263, 281, 383, 389, 419, 461, 479, 491.	17
984	1, 7, 13, 17, 31, 37, 43, 47, 73, 97, 101, 103, 107, 127, 131, 157, 163, 173, 197, 211, 223, 227, 233, 241, 251, 257, 283, 293, 307, 311, 331, 337, 353, 367, 383, 397, 421, 443, 461, 463.	40

$2 N$	x	n
986	3, 19, 67, 79, 103, 109, 127, 157, 163, 199, 229, 277, 313, 367, 373, 379, 409, 439, 463, 487.	20
988	5, 11, 17, 41, 47, 59, 101, 107, 131, 149, 167, 179, 191, 227, 269, 311, 347, 389, 401, 419, 431, 467, 479.	23
990	7, 13, 19, 23, 37, 43, 53, 61, 71, 79, 83, 103, 107, 109, 113, 127, 131, 137, 151, 163, 167, 179, 181, 193, 229, 233, 239, 251, 257, 263, 271, 281, 307, 313, 317, 331, 337, 347, 349, 359, 373, 383, 389, 397, 419, 421, 433, 443, 449, 467, 487, 491.	32
992	1, 73, 109, 139, 163, 181, 223, 241, 283, 331, 349, 373, 379, 421.	14
994	3, 11, 17, 23, 41, 47, 53, 83, 107, 113, 131, 137, 167, 173, 197, 233, 251, 293, 311, 317, 347, 353, 401, 431, 491.	25
996	5, 13, 19, 29, 43, 59, 67, 89, 109, 113, 137, 139, 157, 167, 173, 199, 223, 227, 239, 257, 263, 269, 277, 313, 337, 349, 353, 379, 383, 389, 397, 409, 419, 433, 439, 449, 487.	36
998	1, 7, 31, 61, 79, 139, 211, 229, 241, 271, 307, 337, 367, 379, 397, 421, 457, 499.	18
1000	3, 17, 23, 29, 47, 53, 59, 71, 89, 113, 137, 173, 179, 191, 227, 239, 257, 281, 317, 347, 353, 359, 383, 401, 431, 443, 479, 491.	28

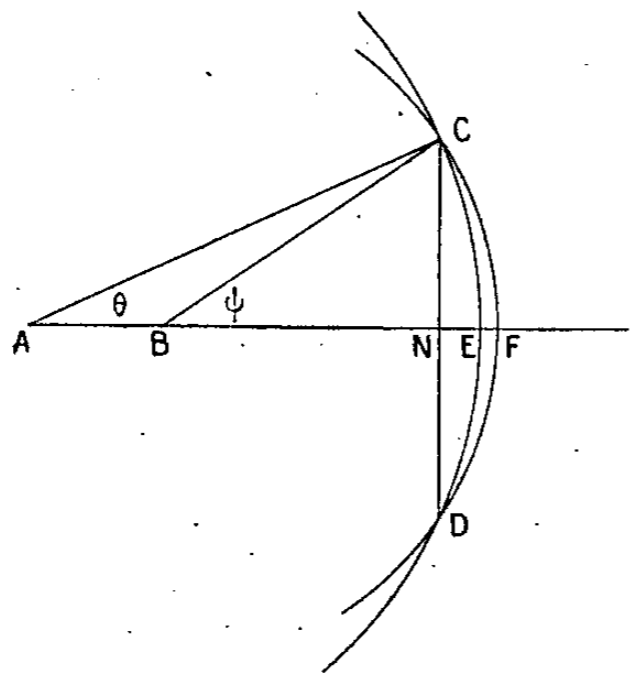
M. R.-W. GENESE

Professeur à l'University College of Wales, Aberystwyth (Angleterre).

SUR UNE INÉGALITÉ TRIGONOMÉTRIQUE

[K 20 e]

— Séance du 10 août 1894 —



Soit CD la corde commune de deux cercles dont les centres A, B sont du même côté de CD, et soit $AC > BC$. L'arc mineur CED du cercle A sera donc dans l'intérieur du segment mineur CFD du cercle B. Donc, arc $CED < \text{arc } CFD$. De plus, on peut faire tourner le plan du cercle A autour de la droite CD. Donc, si deux arcs mineurs de circonférence (pas nécessairement du même plan) ont mêmes extrémités, celui qui a le plus grand rayon est le plus petit. Par exemple, un arc mineur de grand cercle