

NOMBRES - Curiosités, théorie et usages

NOMBRES JAMAIS PREMIERS

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Cette page: <http://villemin.gerard.free.fr/aNombre/TYPMULTI/JamPrem.pdf>

Table des nombres jamais premiers par combinaisons des chiffres

On cherche les nombres [premiers](#) formés par [combinaisons](#) des chiffres du nombre ([anagrammes](#)).

Exemple

137 produit 15 combinaisons dont 11 (en jaune) sont des nombres premiers:
{1, 3, 7, 13, 17, 31, 37, 71, 73, 137, 173, 317, 371, 713, 731}

Avec 49, il y a 4 combinaisons {4, 9, 49, 94}, mais aucun de ces nombres n'est premier. Le nombre 49 est un nombre jamais premier (JP)

Avec 469, il y a 15 combinaisons {4, 6, 9, 46, 49, 64, 69, 94, 96, 469, 496, 649, 694, 946, 964}, mais aucun de ces nombres n'est premier. Le nombre 469 est un nombre jamais premier (JP)

Un nombre comme 468 produit des combinaisons dont l'unité est un nombre pair; il est JP. C'est toujours le cas dès que le nombre contient un chiffre pair, car il existe alors une combinaison avec ce chiffre pair en unité et il est donc divisible par 2.

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Nombres de 1 à 99 et leurs combinaisons premières

Avec les chiffres de 79, il y a trois nombres premiers: 7, 79 et 97

Avec les chiffres de 69, toutes les combinaisons des chiffres sont des nombres premiers.

1, {}	26, {2}	51, {5}	76, {7, 67}
2, {2}	27, {2, 7}	52, {2, 5}	77, {7}
3, {3}	28, {2}	53, {3, 5, 53}	78, {7}
4, {}	29, {2, 29}	54, {5}	79, {7, 79, 97}
5, {5}	30, {3}	55, {5}	80, {}
6, {}	31, {3, 13, 31}	56, {5}	81, {}
7, {7}	32, {2, 3, 23}	57, {5, 7}	82, {2}
8, {}	33, {3}	58, {5}	83, {3, 83}
9, {}	34, {3, 43}	59, {5, 59}	84, {}
10, {}	35, {3, 5, 53}	60, {}	85, {5}
11, {11}	36, {3}	61, {61}	86, {}
12, {2}	37, {3, 7, 37, 73}	62, {2}	87, {7}
13, {3, 13, 31}	38, {3, 83}	63, {3}	88, {}
14, {41}	39, {3}	64, {}	89, {89}
15, {5}	40, {}	65, {5}	90, {}
16, {61}	41, {41}	66, {}	91, {19}
17, {7, 17, 71}	42, {2}	67, {7, 67}	92, {2, 29}
18, {}	43, {3, 43}	68, {}	93, {3}
19, {19}	44, {}	69, {}	94, {}
20, {2}	45, {5}	70, {7}	95, {5, 59}
21, {2}	46, {}	71, {7, 17, 71}	96, {}
22, {2}	47, {7, 47}	72, {2, 7}	97, {7, 79, 97}
23, {2, 3, 23}	48, {}	73, {3, 7, 37, 73}	98, {89}
24, {2}	49, {}	74, {7, 47}	99, {}
25, {2, 5}	50, {5}	75, {5, 7}	

Nombres de 100 à 199 et leurs combinaisons premières

100, {}	134, {3, 13, 31, 41, 43, 431}	167, {7, 17, 61, 67, 71, 167, 617, 761}
101, {11, 101}	135, {3, 5, 13, 31, 53}	168, {61}
102, {2}	136, {3, 13, 31, 61, 163, 613, 631}	169, {19, 61, 619, 691}
103, {3, 13, 31, 103}	137, {3, 7, 13, 17, 31, 37, 71, 73, 137, 173, 317}	170, {7, 17, 71, 107, 701}
104, {41, 401}	138, {3, 13, 31, 83}	171, {7, 11, 17, 71}
105, {5}	139, {3, 13, 19, 31, 139, 193}	172, {2, 7, 17, 71, 127, 271}
106, {61, 601}	140, {41, 401}	173, {3, 7, 13, 17, 31, 37, 71, 73, 137, 173, 317}
107, {7, 17, 71, 107, 701}	141, {11, 41}	174, {7, 17, 41, 47, 71}
108, {}	142, {2, 41, 241, 421}	175, {5, 7, 17, 71, 157, 571, 751}
109, {19, 109}	143, {3, 13, 31, 41, 43, 431}	176, {7, 17, 61, 67, 71, 167, 617, 761}
110, {11, 101}	144, {41}	177, {7, 17, 71}
111, {11}	145, {5, 41, 541}	178, {7, 17, 71}
112, {2, 11, 211}	146, {41, 61, 461, 641}	179, {7, 17, 19, 71, 79, 97, 179, 197, 719, 971}
113, {3, 11, 13, 31, 113, 131, 311}	147, {7, 17, 41, 47, 71}	180, {}
114, {11, 41}	148, {41}	181, {11, 181, 811}
115, {5, 11, 151}	149, {19, 41, 149, 419,}	
116, {11, 61}		
117, {7, 11, 17, 71}		
118, {11, 181, 811}		
119, {11, 19, 191, 911}		

120, {2}	491, 941}	182, {2, 281, 821}
121, {2, 11, 211}	150, {5}	183, {3, 13, 31, 83}
122, {2}	151, {5, 11, 151}	184, {41}
123, {2, 3, 13, 23, 31}	152, {2, 5, 251, 521}	185, {5}
124, {2, 41, 241, 421}	153, {3, 5, 13, 31, 53}	186, {61}
125, {2, 5, 251, 521}	154, {5, 41, 541}	187, {7, 17, 71}
126, {2, 61}	155, {5}	188, {881}
127, {2, 7, 17, 71, 127, 271}	156, {5, 61}	189, {19, 89}
128, {2, 281, 821}	157, {5, 7, 17, 71, 157, 571, 751}	190, {19, 109}
129, {2, 19, 29}	158, {5}	191, {11, 19, 191, 911}
130, {3, 13, 31, 103}	159, {5, 19, 59}	192, {2, 19, 29}
131, {3, 11, 13, 31, 113, 131, 311}	160, {61, 601}	193, {3, 13, 19, 31, 139, 193}
132, {2, 3, 13, 23, 31}	161, {11, 61}	194, {19, 41, 149, 419, 491, 941}
133, {3, 13, 31, 313, 331}	162, {2, 61}	195, {5, 19, 59}
	163, {3, 13, 31, 61, 163, 613, 631}	196, {19, 61, 619, 691}
	164, {41, 61, 461, 641}	197, {7, 17, 19, 71, 79, 97, 179, 197, 719, 971}
	165, {5, 61}	198, {19, 89}
	166, {61, 661}	199, {19, 199, 919, 991}

Nombres de 200 à 299 et leurs combinaisons premières

200, {2}	234, {2, 3, 23, 43}	267, {2, 7, 67}
201, {2}	235, {2, 3, 5, 23, 53, 523}	268, {2}
202, {2}	236, {2, 3, 23, 263}	269, {2, 29, 269}
203, {2, 3, 23}	237, {2, 3, 7, 23, 37, 73}	270, {2, 7}
204, {2}	238, {2, 3, 23, 83, 283, 823}	271, {2, 7, 17, 71, 127, 271}
205, {2, 5}	239, {2, 3, 23, 29, 239, 293}	272, {2, 7, 227}
206, {2}	240, {2}	273, {2, 3, 7, 23, 37, 73}
207, {2, 7}	241, {2, 41, 241, 421}	274, {2, 7, 47}
208, {2}	242, {2}	275, {2, 5, 7, 257}
209, {2, 29}	243, {2, 3, 23, 43}	276, {2, 7, 67}
210, {2}	244, {2}	277, {2, 7, 277, 727}
211, {2, 11, 211}	245, {2, 5}	278, {2, 7, 827}
212, {2}	246, {2}	279, {2, 7, 29, 79, 97}
213, {2, 3, 13, 23, 31}	247, {2, 7, 47}	280, {2}
214, {2, 41, 241, 421}	248, {2}	281, {2, 281, 821}
215, {2, 5, 251, 521}	249, {2, 29}	282, {2}
216, {2, 61}	250, {2, 5}	283, {2, 3, 23, 83, 283, 823}
217, {2, 7, 17, 71, 127, 271}	251, {2, 5, 251, 521}	284, {2}
218, {2, 281, 821}	252, {2, 5}	285, {2, 5}
219, {2, 19, 29}	253, {2, 3, 5, 23, 53, 523}	286, {2}
220, {2}	254, {2, 5}	287, {2, 7, 827}
221, {2}	255, {2, 5}	288, {2}
222, {2}	256, {2, 5}	289, {2, 29, 89, 829}
223, {2, 3, 23, 223}	257, {2, 5, 7, 257}	290, {2, 29}
224, {2}		

225, {2, 5}	258, {2, 5}	291, {2, 19, 29}
226, {2}	259, {2, 5, 29, 59}	292, {2, 29, 229}
227, {2, 7, 227}	260, {2}	293, {2, 3, 23, 29, 239, 293}
228, {2}	261, {2, 61}	294, {2, 29}
229, {2, 29, 229}	262, {2}	295, {2, 5, 29, 59}
230, {2, 3, 23}	263, {2, 3, 23, 263}	296, {2, 29, 269}
231, {2, 3, 13, 23, 31}	264, {2}	297, {2, 7, 29, 79, 97}
232, {2, 3, 23, 223}	265, {2, 5}	298, {2, 29, 89, 829}
233, {2, 3, 23, 233}	266, {2}	299, {2, 29, 929}

[Haut](#)



100 nombres JAMAIS PREMIERS de 1 à 1000

Les combinaisons des chiffres de ces nombres ne produisent jamais de nombres premiers.

1, 4, 6, 8, 9, 10, 18, 40, 44, 46, 48, 49, 60, 64, 66, 68, 69, 80, 81, 84, 86, 88, 90, 94, 96, 99, 100, 108, 180, 400, 404, 406, 408, 440, 444, 446, 448, 460, 464, 466, 468, 469, 480, 484, 486, 488, 496, 600, 604, 606, 608, 609, 640, 644, 646, 648, 649, 660, 664, 666, 668, 669, 680, 684, 686, 688, 690, 694, 696, 699, 800, 801, 804, 806, 808, 810, 840, 844, 846, 848, 860, 864, 866, 868, 880, 884, 886, 888, 900, 906, 909, 946, 960, 964, 966, 969, 990, 996, 999, 1000

12 nombres JAMAIS PREMIERS non PAIRS de 1 à 1000

1, 9, 49, 69, 81, 99, 469, 609, 649, 669, 699, 801, 909, 969, 999

4 nombres JAMAIS PREMIERS non divisibles par 2 et par 3 de 1 à 1000

1,

49 = 7², avec {4, 9, 49, 94} tous des nombres composés.

469 = 7 x 67, avec {4, 6, 9, 46, 49, 64, 69, 94, 96, 469, 496, 649, 694, 946, 964} tous des nombres composés.

649 = 11 x 59 idem 469.

[Haut](#)



Record en quantité de NOMBRES PREMIERS

avec les combinaisons des chiffres d'un nombre

2, 1, {2}

13, 3, {3, 13, 31}

37, 4, {3, 7, 37, 73}

107, 5, {7, 17, 71, 107, 701}
113, 7, {3, 11, 13, 31, 113, 131, 311}
137, 11, {3, 7, 13, 17, 31, 37, 71, 73, 137, 173, 317}
1013, 14, {3, 11, 13, 31, 101, 103, 113, 131, 311, 1013, 1031, 1103, 1301, 3011}
1037, 19, {3, 7, 13, 17, 31, 37, 71, 73, 103, 107, 137, 173, 307, 317, 701, 1307, 3701, 7013, 7103}
1079, 21, {7, 17, 19, 71, 79, 97, 107, 109, 179, 197, 701, 709, 719, 907, 971, 1097, 1709, 1907, 7019, 7109, 7901}
1237, 26, {2, 3, 7, 13, 17, 23, 31, 37, 71, 73, 127, 137, 173, 271, 317, 1237, 1327, 1723, 2137, 2371, 2713, 2731, 3217, 3271, 7213, 7321}
1367, 29, {3, 7, 13, 17, 31, 37, 61, 67, 71, 73, 137, 163, 167, 173, 317, 367, 613, 617, 631, 673, 761, 1367, 1637, 3167, 3617, 3671, 3761, 6173, 6317}
1379, 31, {3, 7, 13, 17, 19, 31, 37, 71, 73, 79, 97, 137, 139, 173, 179, 193, 197, 317, 379, 397, 719, 739, 937, 971, 1973, 3719, 3917, 7193, 9137, 9173, 9371}
10079, 33, {7, 17, 19, 71, 79, 97, 107, 109, 179, 197, 701, 709, 719, 907, 971, 1009, 1097, 1709, 1907, 7001, 7019, 7109, 7901, 9001, 9007, 10079, 10709, 70019, 70901, 90017, 90071, 90107, 97001}
10123, 35, {2, 3, 11, 13, 23, 31, 101, 103, 113, 131, 211, 311, 1013, 1021, 1031, 1103, 1123, 1201, 1213, 1231, 1301, 1321, 2011, 2113, 2131, 2311, 3011, 3121, 10321, 12301, 20113, 21013, 21031, 23011, 30211}
10136, 41, {3, 11, 13, 31, 61, 101, 103, 113, 131, 163, 311, 601, 613, 631, 1013, 1031, 1061, 1063, 1103, 1163, 1301, 1361, 1601, 1613, 3011, 3061, 6011, 6101, 6113, 6131, 6301, 6311, 10163, 10613, 10631, 16103, 16301, 30161, 31601, 36011, 61031}
10139, 53, {3, 11, 13, 19, 31, 101, 103, 109, 113, 131, 139, 191, 193, 311, 911, 1013, 1019, 1031, 1039, 1091, 1093, 1103, 1109, 1193, 1301, 1319, 1901, 1913, 1931, 3011, 3019, 3109, 3119, 3191, 3911, 9011, 9013, 9103, 9311, 10139, 10193, 10391, 11093, 11903, 13109, 13901, 19013, 19031, 19301, 30119, 30911, 31019, 31091}
10237, 55, {2, 3, 7, 13, 17, 23, 31, 37, 71, 73, 103, 107, 127, 137, 173, 271, 307, 317, 701, 1237, 1307, 1327, 1723, 2017, 2137, 2371, 2713, 2731, 3217, 3271, 3701, 7013, 7103, 7213, 7321, 10273, 10723, 12037, 12073, 12703, 17203, 20173, 20731, 23017, 23071, 27031, 27103, 30271, 37021, 37201, 70123, 70321, 71023, 72031, 72103}
10279, 60, {2, 7, 17, 19, 29, 71, 79, 97, 107, 109, 127, 179, 197, 271, 701, 709, 719, 907, 971, 1097, 1279, 1297, 1709, 1907, 2017, 2179, 2719, 2791, 2917, 2971, 7019, 7109, 7129, 7219, 7901, 9127, 9721, 10729, 12097, 12907, 17029, 17209, 19207, 20719, 27091, 27109, 27901, 29017, 70921, 71209, 72019, 72091, 72109, 72901, 79201, 90127, 90217, 90271, 92107, 97021}
10367, 64, {3, 7, 13, 17, 31, 37, 61, 67, 71, 73, 103, 107, 137, 163, 167, 173, 307, 317, 367, 601, 607, 613, 617, 631, 673, 701, 761, 1063, 1307, 1367, 1607, 1637, 3061, 3067, 3167, 3607, 3617, 3671, 3701, 3761, 6037, 6073, 6173, 6301, 6317, 6701, 6703, 7013, 7103, 7603, 16073, 16703, 30671, 31607, 36017, 36107, 37061, 60317, 61703, 67103, 70163, 73061, 76031, 76103}
10379, 89, {3, 7, 13, 17, 19, 31, 37, 71, 73, 79, 97, 103, 107, 109, 137, 139, 173, 179, 193, 197, 307, 317, 379, 397, 701, 709, 719, 739, 907, 937, 971, 1039, 1093, 1097, 1307, 1709, 1907, 1973, 3019, 3079, 3109, 3701,

3709, 3719, 3907, 3917, 7013, 7019, 7039, 7103, 7109, 7193, 7309, 7901, 9013, 9103, 9137, 9173, 9371, 10739, 10937, 10973, 13709, 13907, 17093, 17903, 19037, 19073, 30197, 30971, 31079, 31907, 37019, 39107, 70139, 70913, 71039, 73019, 73091, 79031, 79103, 79301, 90173, 90371, 90731, 91703, 93701, 97103, 97301}

12379, 96, {2, 3, 7, 13, 17, 19, 23, 29, 31, 37, 71, 73, 79, 97, 127, 137, 139, 173, 179, 193, 197, 239, 271, 293, 317, 379, 397, 719, 739, 937, 971, 1237, 1279, 1297, 1327, 1723, 1973, 2137, 2179, 2371, 2713, 2719, 2731, 2791, 2917, 2971, 3217, 3271, 3719, 3917, 7129, 7193, 7213, 7219, 7321, 9127, 9137, 9173, 9371, 9721, 12379, 12739, 12973, 13297, 13729, 17239, 17293, 17923, 19237, 19273, 21379, 21397, 21739, 21937, 23197, 23719, 23917, 23971, 29137, 29173, 31729, 32719, 32917, 32971, 39217, 71293, 71329, 72139, 72931, 73291, 79231, 91237, 92173, 92317, 97213, 97231}

13679, 106, {3, 7, 13, 17, 19, 31, 37, 61, 67, 71, 73, 79, 97, 137, 139, 163, 167, 173, 179, 193, 197, 317, 367, 379, 397, 613, 617, 619, 631, 673, 691, 719, 739, 761, 769, 937, 967, 971, 1367, 1637, 1693, 1697, 1973, 3167, 3169, 3617, 3671, 3691, 3697, 3719, 3761, 3769, 3917, 3967, 6173, 6197, 6317, 6379, 6397, 6719, 6791, 6793, 6917, 6971, 7193, 7369, 7639, 7691, 7963, 9137, 9173, 9371, 9613, 9631, 13679, 13697, 13967, 16937, 19763, 31769, 36791, 37619, 37691, 39671, 39761, 61379, 63179, 63197, 63719, 67139, 67391, 67931, 69317, 69371, 71693, 71963, 73961, 76913, 79613, 79631, 91367, 91673, 93761, 96137, 96731, 97613}

100279, 122, {2, 7, 17, 19, 29, 71, 79, 97, 107, 109, 127, 179, 197, 271, 701, 709, 719, 907, 971, 1009, 1097, 1279, 1297, 1709, 1907, 2017, 2179, 2719, 2791, 2917, 2971, 7001, 7019, 7109, 7129, 7219, 7901, 9001, 9007, 9127, 9721, 10079, 10709, 10729, 12007, 12097, 12907, 17029, 17209, 19207, 20071, 20107, 20719, 27091, 27109, 27901, 29017, 70019, 70201, 70901, 70921, 71209, 72019, 72091, 72109, 72901, 79201, 90017, 90071, 90107, 90127, 90217, 90271, 92107, 97001, 97021, 100279, 100297, 100927, 102079, 107209, 120079, 120097, 120709, 120907, 170029, 172009, 190027, 190207, 192007, 200971, 201709, 201907, 209071, 209701, 210097, 210709, 210907, 279001, 290107, 290701, 291007, 700129, 701209, 709201, 720019, 720091, 720901, 790021, 790201, 900217, 901207, 902017, 907021, 910207, 912007, 920107, 920701, 921007, 927001, 970201, 972001}

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