

# NOMBRES - Curiosités, théorie et usages

## NOMBRES ORPHELINS

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### Table des nombres orphelins jusqu'à 10 000

On nomme **antécédent** (soustractif) d'un nombre, un nombre tel que les différences absolues des chiffres consécutifs de celui-ci produisent le nombre.

Sans antécédent, un nombre est dit **orphelin**.

Le plus petit est **648**

Pour **647**, on a un antécédent: 9370. En effet:  $9 - 3 = 6$ ,  $7 - 3 = 4$  et  $7 - 0 = 7$ .

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#### Liste 47 des orphelins à trois chiffres

**648**, 649, 659, 737, 738, 739, 747, 748, 749, 758, 759, 769, 828, 829, 837, 838, 839, 846, 847, 848, 849, 857, 858, 859, 868, 869, 879, 919, 928, 929, 937, 938, 939, 946, 947, 948, 949, 956, 957, 958, 959, 967, 968, 969, 978, 979, 989

#### Liste des 1065 orphelins à quatre chiffres

**1648**, 1649, 1659, 1737, 1738, 1739, 1747, 1748, 1749, 1758, 1759, 1769, 1828, 1829, 1837, 1838, 1839, 1846, 1847, 1848, 1849, 1857, 1858, 1859, 1868, 1869, 1879, 1919, 1928, 1929, 1937, 1938, 1939, 1946, 1947, 1948, 1949, 1956, 1957, 1958, 1959, 1967, 1968, 1969, 1978, 1979, 1989, 2648, 2649, 2659, 2737, 2738, 2739, 2747, 2748, 2749, 2758, 2759, 2769, 2828, 2829, 2837, 2838, 2839, 2846, 2847, 2848, 2849, 2857, 2858, 2859, 2868, 2869, 2879, 2919, 2928, 2929, 2937, 2938, 2939, 2946, 2947, 2948, 2949, 2956, 2957, 2958, 2959, 2967, 2968, 2969, 2978, 2979, 2989, 3648, 3649, 3659, 3737, 3738, 3739, 3747, 3748, 3749, 3758, 3759, 3769, 3828, 3829, 3837, 3838, 3839, 3846, 3847, 3848, 3849, 3857, 3858, 3859, 3868, 3869, 3879, 3919, 3928, 3929, 3937, 3938, 3939, 3946, 3947, 3948, 3949, 3956, 3957, 3958, 3959, 3967, 3968, 3969, 3978, 3979, 3989, 4648, 4649, 4659, 4737, 4738, 4739, 4747, 4748, 4749, 4758, 4759, 4769, 4828, 4829, 4837, 4838, 4839, 4846, 4847, 4848, 4849, 4857, 4858, 4859, 4868, 4869, 4879, 4919, 4928, 4929, 4937, 4938, 4939, 4946, 4947, 4948, 4949, 4956, 4957, 4958, 4959, 4967, 4968, 4969, 4978, 4979, 4989, 5648, 5649, 5659, 5737, 5738, 5739, 5747, 5748, 5749, 5758, 5759, 5769, 5828, 5829, 5837, 5838, 5839, 5846, 5847, 5848, 5849, 5857, 5858, 5859, 5868, 5869, 5879, 5919, 5928, 5929, 5937, 5938, 5939, 5946, 5947, 5948, 5949, 5956, 5957, 5958, 5959, 5967, 5968, 5969, 5978, 5979, 5989, 6048, 6049, 6059, 6319, 6329, 6378, 6379, 6389, 6408, 6409, 6419, 6480, 6481, 6482, 6483, 6484, 6485, 6486, 6487, 6488, 6489, 6490, 6491, 6492, 6493,

6494, 6495, 6496, 6497, 6498, 6499, 6509, 6590, 6591, 6592, 6593, 6594, 6595, 6596, 6597, 6598, 6599, 6648, 6649, 6659, 6737, 6738, 6739, 6747, 6748, 6749, 6758, 6759, 6769, 6828, 6829, 6837, 6838, 6839, 6846, 6847, 6848, 6849, 6857, 6858, 6859, 6868, 6869, 6879, 6919, 6928, 6929, 6937, 6938, 6939, 6946, 6947, 6948, 6949, 6956, 6957, 6958, 6959, 6967, 6968, 6969, 6978, 6979, 6989, 7037, 7038, 7039, 7047, 7048, 7049, 7058, 7059, 7069, 7148, 7149, 7159, 7219, 7289, 7307, 7308, 7309, 7318, 7319, 7329, 7370, 7371, 7372, 7373, 7374, 7375, 7376, 7377, 7378, 7379, 7380, 7381, 7382, 7383, 7384, 7385, 7386, 7387, 7388, 7389, 7390, 7391, 7392, 7393, 7394, 7395, 7396, 7397, 7398, 7399, 7407, 7408, 7409, 7418, 7419, 7429, 7470, 7471, 7472, 7473, 7474, 7475, 7476, 7477, 7478, 7479, 7480, 7481, 7482, 7483, 7484, 7485, 7486, 7487, 7488, 7489, 7490, 7491, 7492, 7493, 7494, 7495, 7496, 7497, 7498, 7499, 7508, 7509, 7519, 7580, 7581, 7582, 7583, 7584, 7585, 7586, 7587, 7588, 7589, 7590, 7591, 7592, 7593, 7594, 7595, 7596, 7597, 7598, 7599, 7609, 7648, 7649, 7659, 7690, 7691, 7692, 7693, 7694, 7695, 7696, 7697, 7698, 7699, 7737, 7738, 7739, 7747, 7748, 7749, 7758, 7759, 7769, 7828, 7829, 7837, 7838, 7839, 7846, 7847, 7848, 7849, 7857, 7858, 7859, 7868, 7869, 7879, 7919, 7928, 7929, 7937, 7938, 7939, 7946, 7947, 7948, 7949, 7956, 7957, 7958, 7959, 7967, 7968, 7969, 7978, 7979, 7989, 8028, 8029, 8037, 8038, 8039, 8046, 8047, 8048, 8049, 8057, 8058, 8059, 8068, 8069, 8079, 8137, 8138, 8139, 8147, 8148, 8149, 8158, 8159, 8169, 8208, 8209, 8219, 8248, 8249, 8259, 8280, 8281, 8282, 8283, 8284, 8285, 8286, 8287, 8288, 8289, 8290, 8291, 8292, 8293, 8294, 8295, 8296, 8297, 8298, 8299, 8307, 8308, 8309, 8318, 8319, 8329, 8370, 8371, 8372, 8373, 8374, 8375, 8376, 8377, 8378, 8379, 8380, 8381, 8382, 8383, 8384, 8385, 8386, 8387, 8388, 8389, 8390, 8391, 8392, 8393, 8394, 8395, 8396, 8397, 8398, 8399, 8406, 8407, 8408, 8409, 8417, 8418, 8419, 8428, 8429, 8439, 8460, 8461, 8462, 8463, 8464, 8465, 8466, 8467, 8468, 8469, 8470, 8471, 8472, 8473, 8474, 8475, 8476, 8477, 8478, 8479, 8480, 8481, 8482, 8483, 8484, 8485, 8486, 8487, 8488, 8489, 8490, 8491, 8492, 8493, 8494, 8495, 8496, 8497, 8498, 8499, 8507, 8508, 8509, 8518, 8519, 8529, 8570, 8571, 8572, 8573, 8574, 8575, 8576, 8577, 8578, 8579, 8580, 8581, 8582, 8583, 8584, 8585, 8586, 8587, 8588, 8589, 8590, 8591, 8592, 8593, 8594, 8595, 8596, 8597, 8598, 8599, 8608, 8609, 8619, 8648, 8649, 8659, 8680, 8681, 8682, 8683, 8684, 8685, 8686, 8687, 8688, 8689, 8690, 8691, 8692, 8693, 8694, 8695, 8696, 8697, 8698, 8699, 8709, 8736, 8737, 8738, 8739, 8747, 8748, 8749, 8758, 8759, 8769, 8790, 8791, 8792, 8793, 8794, 8795, 8796, 8797, 8798, 8799, 8828, 8829, 8837, 8838, 8839, 8846, 8847, 8848, 8849, 8857, 8858, 8859, 8868, 8869, 8879, 8919, 8928, 8929, 8937, 8938, 8939, 8946, 8947, 8948, 8949, 8956, 8957, 8958, 8959, 8967, 8968, 8969, 8978, 8979, 8989, 9019, 9028, 9029, 9037, 9038, 9039, 9046, 9047, 9048, 9049, 9056, 9057, 9058, 9059, 9067, 9068, 9069, 9078, 9079, 9089, 9109, 9127, 9128, 9129, 9136, 9137, 9138, 9139, 9146, 9147, 9148, 9149, 9157, 9158, 9159, 9168, 9169, 9179, 9190, 9191, 9192, 9193, 9194, 9195, 9196, 9197, 9198, 9199, 9208, 9209, 9219, 9236, 9237, 9238, 9239, 9247, 9248, 9249, 9258, 9259, 9269, 9280, 9281, 9282, 9283, 9284, 9285, 9286, 9287, 9288, 9289, 9290, 9291, 9292, 9293, 9294, 9295, 9296, 9297, 9298, 9299, 9307, 9308, 9309, 9318, 9319, 9329, 9348, 9349, 9359, 9370, 9371, 9372, 9373, 9374, 9375, 9376, 9377, 9378, 9379, 9380, 9381, 9382, 9383, 9384, 9385, 9386, 9387, 9388, 9389, 9390, 9391, 9392, 9393, 9394, 9395, 9396, 9397, 9398, 9399, 9406, 9407, 9408, 9409, 9417, 9418, 9419, 9428, 9429, 9439, 9460, 9461, 9462, 9463, 9464, 9465, 9466, 9467, 9468, 9469, 9470, 9471, 9472, 9473, 9474, 9475, 9476, 9477, 9478, 9479, 9480, 9481, 9482, 9483, 9484, 9485, 9486, 9487, 9488, 9489, 9490, 9491, 9492, 9493, 9494,

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9790, 9791, 9792, 9793, 9794, 9795, 9796, 9797, 9798, 9799, 9809, 9827, 9828,  
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