

GUÍA TENCOLOGIA E INFORMÁTICA

UNIDAD 2.

Programación en Visual Basic.

Secuencia Numérica

Una **secuencia numérica** es una sucesión de números ordenados de manera que sigue un patrón o regla específica. Cada número en la secuencia se denomina **término**. Las secuencias numéricas pueden ser finitas, con un número limitado de términos, o infinitas, continuando indefinidamente.

Existen muchos tipos de secuencias numéricas, algunas de las más comunes incluyen:

1. **Secuencia aritmética:** Cada término se obtiene sumando o restando una cantidad constante al término anterior. Por ejemplo, la secuencia 2,5,8,11,14,... es aritmética, con una diferencia común de 3.
2. **Secuencia geométrica:** Cada término se obtiene multiplicando el término anterior por un número constante. Por ejemplo, la secuencia 3,9,27,81,... es geométrica, con una razón común de 3.
3. **Secuencia de Fibonacci:** Cada término es la suma de los dos términos anteriores. Por ejemplo, 0,1,1,2,3,5,8,13,...
4. **Secuencias especiales:** Algunas secuencias siguen reglas más complejas o específicas, como la secuencia de números primos 2,3,5,7,11,13,17,19,23,29,31,37,41,43,47,53,59,61,67,71,73,79,83,89,97,101,103,107,109,113,127,131,137,149,151,157,163,167,173,179,181,187,191,193,197,199,211,223,227,229,233,239,241,251,257,263,269,271,277,281,283,293,307,311,313,317,331,337,347,349,353,359,367,373,379,383,389,397,401,409,419,421,431,433,439,443,449,457,461,463,467,479,487,491,499,503,509,521,523,541,547,557,563,569,571,577,587,593,601,607,613,617,619,631,637,641,643,647,653,659,661,673,677,683,687,691,697,701,709,713,727,733,739,743,751,757,761,769,773,787,797,809,811,823,827,829,833,839,853,857,859,863,877,881,883,887,893,897,907,911,913,919,929,937,941,947,953,967,971,977,983,991,1009,1013,1019,1021,1031,1033,1039,1043,1049,1051,1057,1063,1069,1087,1091,1093,1097,1103,1107,1117,1123,1129,1133,1139,1147,1151,1153,1159,1163,1169,1171,1177,1181,1183,1187,1193,1197,1201,1207,1213,1217,1223,1229,1231,1237,1241,1247,1251,1259,1261,1267,1271,1277,1283,1289,1291,1297,1301,1303,1307,1313,1319,1321,1327,1331,1333,1337,1343,1349,1351,1357,1361,1367,1373,1379,1381,1387,1391,1397,1403,1409,1411,1417,1423,1429,1433,1439,1447,1451,1453,1459,1463,1469,1471,1477,1481,1483,1487,1493,1497,1501,1507,1511,1513,1519,1523,1529,1531,1537,1541,1543,1547,1553,1559,1561,1567,1571,1573,1577,1583,1587,1591,1597,1601,1603,1607,1609,1613,1617,1621,1627,1631,1633,1637,1643,1649,1651,1657,1661,1663,1667,1673,1677,1681,1687,1691,1693,1697,1701,1703,1709,1711,1717,1721,1723,1729,1733,1739,1741,1747,1751,1753,1759,1763,1767,1771,1777,1781,1783,1787,1793,1797,1801,1803,1807,1811,1813,1817,1823,1829,1831,1837,1841,1843,1847,1853,1859,1861,1867,1871,1873,1877,1883,1887,1891,1893,1897,1901,1903,1907,1913,1917,1921,1923,1927,1931,1933,1937,1943,1949,1951,1953,1957,1963,1967,1971,1973,1977,1983,1987,1991,1993,1997,2003,2009,2011,2013,2017,2021,2023,2027,2029,2033,2039,2041,2043,2047,2053,2057,2063,2069,2071,2077,2081,2083,2087,2093,2097,2101,2103,2107,2113,2117,2121,2123,2129,2131,2137,2141,2143,2147,2153,2159,2161,2167,2171,2173,2177,2183,2187,2191,2193,2197,2203,2209,2211,2213,2217,2221,2223,2227,2231,2233,2237,2243,2249,2251,2253,2257,2263,2267,2271,2273,2277,2283,2287,2291,2293,2297,2301,2303,2307,2311,2313,2317,2323,2329,2331,2333,2337,2343,2349,2351,2353,2357,2363,2367,2371,2373,2377,2383,2387,2391,2393,2397,2401,2403,2407,2411,2413,2417,2423,2429,2431,2433,2437,2443,2449,2451,2453,2457,2463,2467,2471,2473,2477,2483,2487,2491,2493,2497,2501,2503,2507,2511,2513,2517,2523,2529,2531,2533,2537,2543,2549,2551,2553,2557,2563,2567,2571,2573,2577,2583,2587,2591,2593,2597,2601,2603,2607,2611,2613,2617,2623,2629,2631,2633,2637,2643,2649,2651,2653,2657,2663,2667,2671,2673,2677,2683,2687,2691,2693,2697,2701,2703,2707,2711,2713,2717,2723,2729,2731,2733,2737,2743,2749,2751,2753,2757,2763,2767,2771,2773,2777,2783,2787,2791,2793,2797,2801,2803,2807,2811,2813,2817,2823,2829,2831,2833,2837,2843,2849,2851,2853,2857,2863,2867,2871,2873,2877,2883,2887,2891,2893,2897,2901,2903,2907,2911,2913,2917,2923,2929,2931,2933,2937,2943,2949,2951,2953,2957,2963,2967,2971,2973,2977,2983,2987,2991,2993,2997,3001,3003,3007,3011,3013,3017,3023,3029,3031,3033,3037,3043,3049,3051,3053,3057,3063,3067,3071,3073,3077,3083,3087,3091,3093,3097,3101,3103,3107,3113,3117,3121,3123,3127,3131,3133,3137,3143,3149,3151,3153,3157,3163,3167,3171,3173,3177,3183,3187,3191,3193,3197,3201,3203,3207,3211,3213,3217,3223,3229,3231,3233,3237,3243,3249,3251,3253,3257,3263,3267,3271,3273,3277,3283,3287,3291,3293,3297,3301,3303,3307,3311,3313,3317,3323,3329,3331,3333,3337,3343,3349,3351,3353,3357,3363,3367,3371,3373,3377,3383,3387,3391,3393,3397,3401,3403,3407,3411,3413,3417,3423,3429,3431,3433,3437,3443,3449,3451,3453,3457,3463,3467,3471,3473,3477,3483,3487,3491,3493,3497,3501,3503,3507,3511,3513,3517,3523,3529,3531,3533,3537,3543,3549,3551,3553,3557,3563,3567,3571,3573,3577,3583,3587,3591,3593,3597,3601,3603,3607,3611,3613,3617,3623,3629,3631,3633,3637,3643,3649,3651,3653,3657,3663,3667,3671,3673,3677,3683,3687,3691,3693,3697,3701,3703,3707,3711,3713,3717,3723,3729,3731,3733,3737,3743,3749,3751,3753,3757,3763,3767,3771,3773,3777,3783,3787,3791,3793,3797,3801,3803,3807,3811,3813,3817,3823,3829,3831,3833,3837,3843,3849,3851,3853,3857,3863,3867,3871,3873,3877,3883,3887,3891,3893,3897,3901,3903,3907,3911,3913,3917,3923,3929,3931,3933,3937,3943,3949,3951,3953,3957,3963,3967,3971,3973,3977,3983,3987,3991,3993,3997,4001,4003,4007,4011,4013,4017,4023,4029,4031,4033,4037,4043,4049,4051,4053,4057,4063,4067,4071,4073,4077,4083,4087,4091,4093,4097,4101,4103,4107,4111,4113,4117,4123,4129,4131,4133,4137,4143,4149,4151,4153,4157,4163,4167,4171,4173,4177,4183,4187,4191,4193,4197,4201,4203,4207,4211,4213,4217,4223,4229,4231,4233,4237,4243,4249,4251,4253,4257,4263,4267,4271,4273,4277,4283,4287,4291,4293,4297,4301,4303,4307,4311,4313,4317,4323,4329,4331,4333,4337,4343,4349,4351,4353,4357,4363,4367,4371,4373,4377,4383,4387,4391,4393,4397,4401,4403,4407,4411,4413,4417,4423,4429,4431,4433,4437,4443,4449,4451,4453,4457,4463,4467,4471,4473,4477,4483,4487,4491,4493,4497,4501,4503,4507,4511,4513,4517,4523,4529,4531,4533,4537,4543,4549,4551,4553,4557,4563,4567,4571,4573,4577,4583,4587,4591,4593,4597,4601,4603,4607,4611,4613,4617,4623,4629,4631,4633,4637,4643,4649,4651,4653,4657,4663,4667,4671,4673,4677,4683,4687,4691,4693,4697,4701,4703,4707,4711,4713,4717,4723,4729,4731,4733,4737,4743,4749,4751,4753,4757,4763,4767,4771,4773,4777,4783,4787,4791,4793,4797,4801,4803,4807,4811,4813,4817,4823,4829,4831,4833,4837,4843,4849,4851,4853,4857,4863,4867,4871,4873,4877,4883,4887,4891,4893,4897,4901,4903,4907,4911,4913,4917,4923,4929,4931,4933,4937,4943,4949,4951,4953,4957,4963,4967,4971,4973,4977,4983,4987,4991,4993,4997,5001,5003,5007,5011,5013,5017,5023,5029,5031,5033,5037,5043,5049,5051,5053,5057,5063,5067,5071,5073,5077,5083,5087,5091,5093,5097,5101,5103,5107,5111,5113,5117,5123,5129,5131,5133,5137,5143,5149,5151,5153,5157,5163,5167,5171,5173,5177,5183,5187,5191,5193,5197,5201,5203,5207,5211,5213,5217,5223,5229,5231,5233,5237,5243,5249,5251,5253,5257,5263,5267,5271,5273,5277,5283,5287,5291,5293,5297,5301,5303,5307,5311,5313,5317,5323,5329,5331,5333,5337,5343,5349,5351,5353,5357,5363,5367,5371,5373,5377,5383,5387,5391,5393,5397,5401,5403,5407,5411,5413,5417,5423,5429,5431,5433,5437,5443,5449,5451,5453,5457,5463,5467,5471,5473,5477,5483,5487,5491,5493,5497,5501,5503,5507,5511,5513,5517,5523,5529,5531,5533,5537,5543,5549,5551,5553,5557,5563,5567,5571,5573,5577,5583,5587,5591,5593,5597,5601,5603,5607,5611,5613,5617,5623,5629,5631,5633,5637,5643,5649,5651,5653,5657,5663,5667,5671,5673,5677,5683,5687,5691,5693,5697,5701,5703,5707,5711,5713,5717,5723,5729,5731,5733,5737,5743,5749,5751,5753,5757,5763,5767,5771,5773,5777,5783,5787,5791,5793,5797,5801,5803,5807,5811,5813,5817,5823,5829,5831,5833,5837,5843,5849,5851,5853,5857,5863,5867,5871,5873,5877,5883,5887,5891,5893,5897,5901,5903,5907,5911,5913,5917,5923,5929,5931,5933,5937,5943,5949,5951,5953,5957,5963,5967,5971,5973,5977,5983,5987,5991,5993,5997,6001,6003,6007,6011,6013,6017,6023,6029,6031,6033,6037,6043,6049,6051,6053,6057,6063,6067,6071,6073,6077,6083,6087,6091,6093,6097,6101,6103,6107,6111,6113,6117,6123,6129,6131,6133,6137,6143,6149,6151,6153,6157,6163,6167,6171,6173,6177,6183,6187,6191,6193,6197,6201,6203,6207,6211,6213,6217,6223,6229,6231,6233,6237,6243,6249,6251,6253,6257,6263,6267,6271,6273,6277,6283,6287,6291,6293,6297,6301,6303,6307,6311,6313,6317,6323,6329,6331,6333,6337,6343,6349,6351,6353,6357,6363,6367,6371,6373,6377,6383,6387,6391,6393,6397,6401,6403,6407,6411,6413,6417,6423,6429,6431,6433,6437,6443,6449,6451,6453,6457,6463,6467,6471,6473,6477,6483,6487,6491,6493,6497,6501,6503,6507,6511,6513,6517,6523,6529,6531,6533,6537,6543,6549,6551,6553,6557,6563,6567,6571,6573,6577,6583,6587,6591,6593,6597,6601,6603,6607,6611,6613,6617,6623,6629,6631,6633,6637,6643,6649,6651,6653,6657,6663,6667,6671,6673,6677,6683,6687,6691,6693,6697,6701,6703,6707,6711,6713,6717,6723,6729,6731,6733,6737,6743,6749,6751,6753,6757,6763,6767,6771,6773,6777,6783,6787,6791,6793,6797,6801,6803,6807,6811,6813,6817,6823,6829,6831,6833,6837,6843,6849,6851,6853,6857,6863,6867,6871,6873,6877,6883,6887,6891,6893,6897,6901,6903,6907,6911,6913,6917,6923,6929,6931,6933,6937,6943,6949,6951,6953,6957,6963,6967,6971,6973,6977,6983,6987,6991,6993,6997,7001,7003,7007,7011,7013,7017,7023,7029,7031,7033,7037,7043,7049,7051,7053,7057,7063,7067,7071,7073,7077,7083,7087,7091,7093,7097,7101,7103,7107,7111,7113,7117,7123,7129,7131,7133,7137,7143,7149,7151,7153,7157,7163,7167,7171,7173,7177,7183,7187,7191,7193,7197,7201,7203,7207,7211,7213,7217,7223,7229,7231,7233,7237,7243,7249,7251,7253,7257,7263,7267,7271,7273,7277,7283,7287,7291,7293,7297,7301,7303,7307,7311,7313,7317,7323,7329,7331,7333,7337,7343,7349,7351,7353,7357,7363,7367,7371,7373,7377,7383,7387,7391,7393,7397,7401,7403,7407,7411,7413,7417,7423,7429,7431,7433,7437,7443,7449,7451,7453,7457,7463,7467,7471,7473,7477,7483,7487,7491,7493,7497,7501,7503,7507,7511,7513,7517,7523,7529,7531,7533,7537,7543,7549,7551,7553,7557,7563,7567,7571,7573,7577,7583,7587,7591,7593,7597,7601,7603,7607,7611,7613,7617,7623,7629,7631,7633,7637,7643,7649,7651,7653,7657,7663,7667,7671,7673,7677,7683,7687,7691,7693,7697,7701,7703,7707,7711,7713,7717,7723,7729,7731,7733,7737,7743,7749,7751,7753,7757,7763,7767,7771,7773,7777,7783,7787,7791,7793,7797,7801,7803,7807,7811,7813,7817,7823,7829,7831,7833,7837,7843,7849,7851,7853,7857,7863,7867,7871,7873,7877,7883,7887,7891,7893,7897,7901,7903,7907,7911,7913,7917,7923,7929,7931,7933,7937,7943,7949,7951,7953,7957,7963,7967,7971,7973,7977,7983,7987,7991,7993,7997,8001,8003,8007,8011,8013,8017,8023,8029,8031,8033,8037,8043,8049,8051,8053,8057,8063,8067,8071,8073,8077,8083,8087,8091,8093,8097,8101,8103,8107,8111,8113,8117,8123,8129,8131,8133,8137,8143,8149,8151,8153,8157,8163,8167,8171,8173,8177,8183,8187,8191,8193,8197,8201,8203,8207,8211,8213,8217,8223,8229,8231,8233,8237,8243,8249,8251,8253,8257,8263,8267,8271,8273,8277,8283,8287,8291,8293,8297,8301,8303,8307,8311,8313,8317,8323,8329,8331,8333,8337,8343,8349,8351,8353,8357,8363,8367,8371,8373,8377,8383,8387,8391,8393,8397,8401,8403,8407,8411,8413,8417,8423,8429,8431,8433,8437,8443,8449,8451,8453,8457,8463,8467,8471,8473,8477,8483,8487,8491,8493,8497,8501,8503,8507,8511,8513,8517,8523,8529,8531,8533,8537,8543,8549,8551,8553,8557,8563,8567,8571,8573,8577,8583,8587,8591,8593,8597,8601,8603,8607,8611,8613,8617,8623,8629,8631,8633,8637,8643,8649,8651,8653,8657,8663,8667,8671,8673,8677,8683,8687,8691,8693,8697,8701,8703,8707,8711,8713,8717,8723,8729,8731,8733,8737,8743,8749,8751,8753,8757,8763,8767,8771,8773,8777,8783,8787,8791,8793,8797,8801,8803,8807,8811,8813,8817,8823,8829,8831,8833,8837,8843,8849,8851,8853,8857,8863,8867,8871,8873,8877,8883,8887,8891,8893,8897,8901,8903,8907,8911,8913,8917,8923,8929,8931,8933,8937,8943,8949,8951,8953,8957,8963,8967,8971,8973,8977,8983,8987,8991,8993,8997,9001,9003,9007,9011,9013,9017,9023,9029,9031,9033,9037,9043,9049,9051,9053,9057,9063,9067,9071,9073,9077,9083,9087,9091,9093,9097,9101,9103,9107,9111,9113,9117,9123,9129,9131,9133,9137,9143,9149,9151,9153,9157,9163,9167,9171,9173,9177,9183,9187,9191,9193,9197,9201,9203,9207,9211,9213,9217,9223,9229,9231,9233,9237,9243,9249,9251,9253,9257,9263,9267,9271,9273,9277,9283,9287,9291,9293,9297,9301,9303,9307,9311,9313,9317,9323,9329,9331,9333,9337,9343,9349,9351,9353,9357,9363,9367,9371,9373,9377,9383,9387,9391,9393,9397,9401,9403,9407,9411,9413,9417,9423,9429,9431,9433,9437,9443,9449,9451,9453,9457,9463,9467,9471,9473,9477,9483,9487,9491,9493,9497,9501,9503,9507,9511,9513,9517,9523,9529,9531,9533,9537,9543,9549,9551,9553,9557,9563,9567,9571,9573,9577,9583,9587,9591,9593,9597,9601,9603,9607,9611,9613,9617,9623,9629,9631,9633,9637,9643,9649,9651,9653,9657,9663,9667,9671,9673,9677,9683,9687,9691,9693,9697,9701,9703,9707,9711,9713,9717,9723,9729,9731,9733,9737,9