

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 2,3,5,7,11,13,17,19,23,29,31,37,41,43,47,53,59,61,67,71,73,79,83,89,97,101,103,107,109,113,127,131,137,149,151,157,163,167,173,179,181,187,191,193,197,199,211,223,227,229,233,239,241,251,257,263,269,271,277,281,283,293,307,311,313,317,331,337,347,349,353,359,367,373,379,383,389,397,401,409,419,421,431,433,439,443,449,457,461,463,467,479,487,491,499,503,509,521,523,527,539,541,547,557,563,569,571,577,587,593,599,601,607,613,617,619,631,637,641,643,647,653,659,661,667,671,673,677,683,687,691,693,697,701,709,713,719,727,733,739,743,751,757,761,769,773,787,797,809,811,821,823,827,829,833,839,853,857,859,863,877,881,883,887,893,897,907,911,913,917,929,937,941,947,953,967,971,973,977,983,989,991,993,997,1009,1013,1019,1021,1031,1033,1039,1043,1049,1051,1057,1063,1069,1073,1079,1087,1091,1093,1097,1103,1107,1117,1123,1127,1129,1133,1139,1147,1151,1153,1157,1163,1169,1171,1177,1181,1183,1187,1193,1197,1201,1207,1213,1217,1223,1229,1231,1237,1241,1243,1247,1253,1259,1261,1267,1271,1273,1277,1283,1287,1291,1297,1301,1303,1307,1313,1317,1321,1327,1331,1333,1337,1343,1347,1351,1357,1361,1363,1367,1373,1377,1381,1383,1387,1393,1397,1403,1407,1411,1413,1417,1423,1427,1433,1439,1443,1447,1453,1457,1463,1469,1471,1473,1477,1483,1487,1493,1497,1501,1503,1507,1511,1513,1517,1523,1527,1531,1533,1537,1543,1547,1551,1553,1557,1563,1567,1571,1573,1577,1583,1587,1591,1593,1597,1601,1603,1607,1613,1617,1621,1623,1627,1633,1637,1643,1647,1651,1653,1657,1663,1667,1673,1677,1681,1683,1687,1693,1697,1703,1707,1711,1713,1717,1723,1727,1733,1739,1743,1747,1753,1757,1763,1767,1771,1773,1777,1783,1787,1793,1797,1801,1803,1807,1813,1817,1823,1827,1831,1833,1837,1843,1847,1851,1853,1857,1863,1867,1871,1873,1877,1883,1887,1893,1897,1903,1907,1913,1917,1923,1927,1933,1937,1943,1947,1953,1957,1963,1967,1973,1977,1983,1987,1993,1997,2003,2007,2011,2013,2017,2023,2027,2033,2039,2043,2047,2053,2057,2063,2067,2073,2077,2083,2087,2093,2097,2101,2103,2107,2113,2117,2123,2127,2131,2133,2137,2143,2147,2153,2157,2163,2167,2173,2177,2183,2187,2193,2197,2203,2207,2213,2217,2223,2229,2233,2237,2243,2247,2253,2257,2263,2267,2273,2277,2283,2287,2293,2297,2303,2307,2311,2313,2317,2323,2327,2333,2339,2343,2347,2353,2357,2363,2367,2373,2377,2383,2387,2393,2397,2403,2407,2413,2417,2423,2427,2433,2439,2443,2447,2453,2457,2463,2467,2473,2477,2483,2487,2493,2497,2503,2507,2513,2517,2523,2527,2533,2539,2543,2547,2553,2557,2563,2567,2573,2577,2583,2587,2593,2597,2603,2607,2613,2617,2623,2627,2633,2639,2643,2647,2653,2657,2663,2667,2673,2677,2683,2687,2693,2697,2703,2707,2713,2717,2723,2727,2733,2739,2743,2747,2753,2757,2763,2767,2773,2777,2783,2787,2793,2797,2803,2807,2813,2817,2823,2827,2833,2839,2843,2847,2853,2857,2863,2867,2873,2877,2883,2887,2893,2897,2903,2907,2913,2917,2923,2927,2933,2939,2943,2947,2953,2957,2963,2967,2973,2977,2983,2987,2993,2997,3003,3007,3013,3017,3023,3027,3033,3039,3043,3047,3053,3057,3063,3067,3073,3077,3083,3087,3093,3097,3103,3107,3113,3117,3123,3127,3133,3139,3143,3147,3153,3157,3163,3167,3173,3177,3183,3187,3193,3197,3203,3207,3213,3217,3223,3227,3233,3239,3243,3247,3253,3257,3263,3267,3273,3277,3283,3287,3293,3297,3303,3307,3313,3317,3323,3327,3333,3337,3343,3347,3353,3357,3363,3367,3373,3377,3383,3387,3393,3397,3403,3407,3413,3417,3423,3427,3433,3439,3443,3447,3453,3457,3463,3467,3473,3477,3483,3487,3493,3497,3503,3507,3513,3517,3523,3527,3533,3539,3543,3547,3553,3557,3563,3567,3573,3577,3583,3587,3593,3597,3603,3607,3613,3617,3623,3627,3633,3639,3643,3647,3653,3657,3663,3667,3673,3677,3683,3687,3693,3697,3703,3707,3713,3717,3723,3727,3733,3739,3743,3747,3753,3757,3763,3767,3773,3777,3783,3787,3793,3797,3803,3807,3813,3817,3823,3827,3833,3839,3843,3847,3853,3857,3863,3867,3873,3877,3883,3887,3893,3897,3903,3907,3913,3917,3923,3927,3933,3939,3943,3947,3953,3957,3963,3967,3973,3977,3983,3987,3993,3997,4003,4007,4013,4017,4023,4027,4033,4039,4043,4047,4053,4057,4063,4067,4073,4077,4083,4087,4093,4097,4103,4107,4113,4117,4123,4127,4133,4139,4143,4147,4153,4157,4163,4167,4173,4177,4183,4187,4193,4197,4203,4207,4213,4217,4223,4227,4233,4239,4243,4247,4253,4257,4263,4267,4273,4277,4283,4287,4293,4297,4303,4307,4313,4317,4323,4327,4333,4339,4343,4347,4353,4357,4363,4367,4373,4377,4383,4387,4393,4397,4403,4407,4413,4417,4423,4427,4433,4439,4443,4447,4453,4457,4463,4467,4473,4477,4483,4487,4493,4497,4503,4507,4513,4517,4523,4527,4533,4539,4543,4547,4553,4557,4563,4567,4573,4577,4583,4587,4593,4597,4603,4607,4613,4617,4623,4627,4633,4639,4643,4647,4653,4657,4663,4667,4673,4677,4683,4687,4693,4697,4703,4707,4713,4717,4723,4727,4733,4739,4743,4747,4753,4757,4763,4767,4773,4777,4783,4787,4793,4797,4803,4807,4813,4817,4823,4827,4833,4839,4843,4847,4853,4857,4863,4867,4873,4877,4883,4887,4893,4897,4903,4907,4913,4917,4923,4927,4933,4939,4943,4947,4953,4957,4963,4967,4973,4977,4983,4987,4993,4997,5003,5007,5013,5017,5023,5027,5033,5039,5043,5047,5053,5057,5063,5067,5073,5077,5083,5087,5093,5097,5103,5107,5113,5117,5123,5127,5133,5139,5143,5147,5153,5157,5163,5167,5173,5177,5183,5187,5193,5197,5203,5207,5213,5217,5223,5227,5233,5239,5243,5247,5253,5257,5263,5267,5273,5277,5283,5287,5293,5297,5303,5307,5313,5317,5323,5327,5333,5339,5343,5347,5353,5357,5363,5367,5373,5377,5383,5387,5393,5397,5403,5407,5413,5417,5423,5427,5433,5439,5443,5447,5453,5457,5463,5467,5473,5477,5483,5487,5493,5497,5503,5507,5513,5517,5523,5527,5533,5539,5543,5547,5553,5557,5563,5567,5573,5577,5583,5587,5593,5597,5603,5607,5613,5617,5623,5627,5633,5639,5643,5647,5653,5657,5663,5667,5673,5677,5683,5687,5693,5697,5703,5707,5713,5717,5723,5727,5733,5739,5743,5747,5753,5757,5763,5767,5773,5777,5783,5787,5793,5797,5803,5807,5813,5817,5823,5827,5833,5839,5843,5847,5853,5857,5863,5867,5873,5877,5883,5887,5893,5897,5903,5907,5913,5917,5923,5927,5933,5939,5943,5947,5953,5957,5963,5967,5973,5977,5983,5987,5993,5997,6003,6007,6013,6017,6023,6027,6033,6039,6043,6047,6053,6057,6063,6067,6073,6077,6083,6087,6093,6097,6103,6107,6113,6117,6123,6127,6133,6139,6143,6147,6153,6157,6163,6167,6173,6177,6183,6187,6193,6197,6203,6207,6213,6217,6223,6227,6233,6239,6243,6247,6253,6257,6263,6267,6273,6277,6283,6287,6293,6297,6303,6307,6313,6317,6323,6327,6333,6339,6343,6347,6353,6357,6363,6367,6373,6377,6383,6387,6393,6397,6403,6407,6413,6417,6423,6427,6433,6439,6443,6447,6453,6457,6463,6467,6473,6477,6483,6487,6493,6497,6503,6507,6513,6517,6523,6527,6533,6539,6543,6547,6553,6557,6563,6567,6573,6577,6583,6587,6593,6597,6603,6607,6613,6617,6623,6627,6633,6639,6643,6647,6653,6657,6663,6667,6673,6677,6683,6687,6693,6697,6703,6707,6713,6717,6723,6727,6733,6739,6743,6747,6753,6757,6763,6767,6773,6777,6783,6787,6793,6797,6803,6807,6813,6817,6823,6827,6833,6839,6843,6847,6853,6857,6863,6867,6873,6877,6883,6887,6893,6897,6903,6907,6913,6917,6923,6927,6933,6939,6943,6947,6953,6957,6963,6967,6973,6977,6983,6987,6993,6997,7003,7007,7013,7017,7023,7027,7033,7039,7043,7047,7053,7057,7063,7067,7073,7077,7083,7087,7093,7097,7103,7107,7113,7117,7123,7127,7133,7139,7143,7147,7153,7157,7163,7167,7173,7177,7183,7187,7193,7197,7203,7207,7213,7217,7223,7227,7233,7239,7243,7247,7253,7257,7263,7267,7273,7277,7283,7287,7293,7297,7303,7307,7313,7317,7323,7327,7333,7339,7343,7347,7353,7357,7363,7367,7373,7377,7383,7387,7393,7397,7403,7407,7413,7417,7423,7427,7433,7439,7443,7447,7453,7457,7463,7467,7473,7477,7483,7487,7493,7497,7503,7507,7513,7517,7523,7527,7533,7539,7543,7547,7553,7557,7563,7567,7573,7577,7583,7587,7593,7597,7603,7607,7613,7617,7623,7627,7633,7639,7643,7647,7653,7657,7663,7667,7673,7677,7683,7687,7693,7697,7703,7707,7713,7717,7723,7727,7733,7739,7743,7747,7753,7757,7763,7767,7773,7777,7783,7787,7793,7797,7803,7807,7813,7817,7823,7827,7833,7839,7843,7847,7853,7857,7863,7867,7873,7877,7883,7887,7893,7897,7903,7907,7913,7917,7923,7927,7933,7939,7943,7947,7953,7957,7963,7967,7973,7977,7983,7987,7993,7997,8003,8007,8013,8017,8023,8027,8033,8039,8043,8047,8053,8057,8063,8067,8073,8077,8083,8087,8093,8097,8103,8107,8113,8117,8123,8127,8133,8139,8143,8147,8153,8157,8163,8167,8173,8177,8183,8187,8193,8197,8203,8207,8213,8217,8223,8227,8233,8239,8243,8247,8253,8257,8263,8267,8273,8277,8283,8287,8293,8297,8303,8307,8313,8317,8323,8327,8333,8339,8343,8347,8353,8357,8363,8367,8373,8377,8383,8387,8393,8397,8403,8407,8413,8417,8423,8427,8433,8439,8443,8447,8453,8457,8463,8467,8473,8477,8483,8487,8493,8497,8503,8507,8513,8517,8523,8527,8533,8539,8543,8547,8553,8557,8563,8567,8573,8577,8583,8587,8593,8597,8603,8607,8613,8617,8623,8627,8633,8639,8643,8647,8653,8657,8663,8667,8673,8677,8683,8687,8693,8697,8703,8707,8713,8717,8723,8727,8733,8739,8743,8747,8753,8757,8763,8767,8773,8777,8783,8787,8793,8797,8803,8807,8813,8817,8823,8827,8833,8839,8843,8847,8853,8857,8863,8867,8873,8877,8883,8887,8893,8897,8903,8907,8913,8917,8923,8927,8933,8939,8943,8947,8953,8957,8963,8967,8973,8977,8983,8987,8993,8997,9003,9007,9013,9017,9023,9027,9033,9039,9043,9047,9053,9057,9063,9067,9073,9077,9083,9087,9093,9097,9103,9107,9113,9117,9123,9127,9133,9139,9143,9147,9153,9157,9163,9167,9173,9177,9183,9187,9193,9197,9203,9207,9213,9217,9223,9227,9233,9239,9243,9247,9253,9257,9263,9267,9273,9277,9283,9287,9293,9297,9303,9307,9313,9317,9323,9327,9333,9339,9343,9347,9353,9357,9363,9367,9373,9377,9383,9387,9393,9397,9403,9407,9413,9417,9423,9427,9433,9439,9443,9447,9453,9457,9463,9467,9473,9477,9483,9487,9493,9497,9503,9507,9513,9517,9523,9527,9533,9539,9543,9547,9553,9557,9563,9567,9573,9577,9583,9587,9593,9597,9603,9607,9613,9617,9623,9627,9633,9639,9643,9647,9653,9657,9663,9667,9673,9677,9683,9687,9693,9697,9703,9707,9713,9717,9723,9727,9733,9739,9743,9747,9753,9757,9763,9767,9773,9777,9783,9787,9793,9797,9803,9807,9813,9817,9823,9827,9833,9839,9843,9847,9853,9857,9863,9867,9873,9877,9883,9887,9893,9897,9903,9907,9913,9917,9923,9927,9933,9939,9943,9947,9953,9957,9963,9967,9973,9977,9983,9987,9993,9997,10003,10007,10013,10017,10023,10027,10033,10039,10043,10047,10053,10057,10063,10067,10073,10077,10083,10087,10093,10097,10103,10107,10113,10117,10123,10127,10133,10139,10143,10147,10153,10157,10163,10167,10173,10177,10183,10187,10193,10197,10203,10207,10213,10217,10223,10227,10233,10239,10243,10247,10253,10257,10263,10267,10273,10277,10283,10287,10293,10297,10303,10307,10313,10317,10323,10327,10333,10339,10343,10347,10353,10357,10363,10367,10373,10377,10383,10387,10393,10397,10403,10407,10413,10417,10423,10427,10433,10439,10443,10447,10453,10457,10463,10467,10473,10477,10483,10487,10493,10497,10503,10507,10513,10517,10523,10527,10533,10539,10543,10547,10553,10557,10563,10567,10573,10577,10583,10587,10593,10597,10603,10607,10613,10617,10623,10627,10633,10639,10643,10647,10653,10657,10663,10667,10673,10677,10683,10687,10693,10697,10703,10707,10713,10717,10723,10727,10733,10739,10743,10747,10753,10757,10763,10767,10773,10777,10783,10787,10793,10797,10803,10807,10813,10817,10823,10827,10833,10839,10843,10847,10853,10857,10863,10867,10873,10877,10883,10887,10893,10897,10903,10907,10913,10917,10923,10927,10933,10939,10943,10947,10953,10957,10963,10967,10973,10977,10983,10987,10993,10997,11003,11007,11013,11017,11023,11027,11033,11039,11043,11047,11053,11057,11063,11067,11073,11077,11083,11087,11093,11097,11103,11107,11113,11117,11123,11127,11133,11139,11143,11147,11153,11157,11163,11167,11173,11177,11183,11187,11193,11197,11203,11207,11213,11217,11223,11227,11233,11239,11243,11247,11253,11257,11263,11267,11273,11277,11283,11287,11293,11297,11303,11307,11313,11317,11323,11327,11333,11339,11343,11347,11353,11357,11363,11367,11373,11377,11383,11387,11393,11397,11403,11407,11413,11417,11423,11427,11433,11439,11443,11447,11453,11457,11463,11467,11473,11477,11483,11487,11493,11497,11503,11507,11513,11517,11523,11527,11533,11539,11543,11547,11553,11557,11563,11567,11573,11577,11583,11587,11593,11597,11603,11607,11613,11617,11623,11627,11633,11639,11643,11647,116