

#### MANUAL DE PRACTICAS



Nombre de la práctica	Multiplicacion de Binarios			No.	1
Asignatura:	Matemáticas Discretas	Carrera:	Ingeniería en sistemas	Duración de la práctica (Hrs)	

Nombre: Miguel Angel Cruz Vega

Grupo: 3102

I. Competencia(s) específica(s): capacidad de aplicar los conocimientos en la practica

II. Lugar de realización de la práctica (laboratorio, taller, aula u otro): Casa

III. Material empleado:

Hojas, bolígrafo, lápiz, goma, saca puntas

IV. Desarrollo de la práctica:







400 4	Migur Angel Chi vego
364905   1001011100101 364905   1001011100101 100000000000000000000000	1526 5989 101010001 Matheria = 3024 23567  1526 5989 10101010001 Multiplicación de binarios.
238825 1000101101101 1000101101101 1000101101101 10001011011101	1061 10000100101 × 65 10000100101 10000100101 10000100101 100001001010101
4233 1000010001001 410601 11000010001001 1000010001001 1000010001	1917   101010101 100001 101011010101 1101011010101 10101010
1097 10001001001 53753 110001001001 10001001001	37/7 1010 1000000001 × 69 1000101 37/013 10101000000001 101010100000001
7893	1029 111110 111101 101110 111101 1111101 11101 1111101 11101 1111101 1101



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1101110101101
      100110111101
                           7085
                                        1011001
 > 63
       31 1010101
                                   101101010101
                           > 89.
2 1190 5, 010011011111 01
                              ,01101110101101
  100110111101
                            1 /10/11/010/1101
                            /101110101101
  10 01 1011 1101
                            1001101 110000101001
  11001110001,000001
                                 110110 1001101
                                1010101
      1111111100001
                         6989
 8161
              101
                         4 85 101101101001101
 X
     101101101001101
     11 (1111100001
                            1101101001101
     100111 1101100101
                           1101101001101
                          10001001000010010001
         1110111011101
                          2369 1110011001001
          11101
  7645
                          × 93 1011101
101110011001001
    29
         101110111011101
        1110111011101
     (1110111011101
                            10/110011001001
      1110111011101
                             11,001,001,001
                            1110011001001
     10010011101001001
                            1010011101010000101
                           3653 111001000101
        10000000100101
  8229
                                          (10)
                           y 13
                 11101
  # 29
                                  11/11001000101
        100000000100101
                                1 11 1001000101
     100000000000000
                                111001000101
     100000000100101
    10000000100101
                               1011100110000001
     [1100001000011000]
                                1111001110001
                          2793
                           13: 11:10:01:10001
 5237 101000111 0101
  93 2 10110101
                            10 1111001110001
                             110001110001
1010001110101
                            11000101110111101
                         3093
                               110000010101
1110110111010000001
                                4 10000
                           16
                                 1100000101010000
 5179 1010000111011
              111101
                                101100001001
   11/0100000111011
                         2825
                                101,00001001
  1 1010000111011
 .1010000111001
                            101100001001
   00000111011
                            1011011001,001
   0000111011
0001001001000001111
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	NO. OF THE PARTY NAMED IN COLUMN 1	2417 100 101110001
2417 10011010104	2417 10010111001	. UI V , 101001
x 42 4 14011101	x al v. 100001	
10001010101	10010111001	100 101 110001
10011010110		100101110001
10-1101101	1100000110100001	11000001100011001
24 1 0 1 0 1 0 1 0 1		11000001
11911100111011001	5245 1010001111101	3289 101001010100
	1 1 1 1 10000	x 9 2 x 1100001
3845 11110000010!	101 000 111 1101	3609 10161111 01001
X 1 , A 1000,	1010001111101	A 11 Y 10001
11110000101	1101001000000000000	1 011110100
1111011111010101		. 10
(11.	8697 1000 0111111001	1010 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2505 100111001001		10111010001
0 1 1001	10000111111001	
. / 60 111 00 1001	1000011	2149 10000 110010
100111001001	1000011111001	1251 1. 11001
101100000010001	101100100101101101	101001100001,
(0110		
-103 111	3157 110001010101	(00001100101
3693 111001101101	A 28 X 111, 11001	1101000111011101
1111001101101	(10001010101	
	110001010101	3189 110001110101
111001101101	10011010001001101	x 89 7 11 11 101100
10010011110101		1010001110101
10010	6325 11001p111101	1 (1000   11010
2433 1110100001001	110010111101	110001110101
× 33 V 1001301	(0010111101	100011000010000
	1001011101	
	11001010100100101	8901 10001011000101
1110100001001		
111010000001001	9913 10001011010101	10001011000101
7285 1111001101001	> 49 X111110001	-0011111111111
	10001011010101	(0011100011101101
100101111001	to mal / il / f	
10/11/10/10/001	1010101010101010101	6121 1011111101001
10/11/10/10/01		1 53 V
11 1 2 2 2 2 1 2 1 2 1 2 1	2 2 2 10100 01110001	(1) (0111110100)
111000111110000010	x 49 y 110001	10[11111000
	1,0001	110001010100001001
6525 110010111101		1,00
y 41 4 101001	11001 111 0011 01 00001	3071
110010111101	1100.1.10	7877 1111611000101
	7157 110 11111 0 101	) 87 1 1010101
100000101101000101	2758	1111011000101
100	11010	11110000-0101
100001110000111248	110 11 11 110101	(111011000101
33	111 1 101 11001 1 101	1111011000101
11 0000 111 0000 1	3189 110001110101	10100011011101101001
1/00011100001	31 89 11000 100111	11 - 6 - 11 - 11
110000	2 89 1110101	3469 110110001101
100111000010000101	10100110101	1 9 1 1001
1001110	1 00 1110001	1/10/1/000/10/
	- /	100110001101
	11100101111010011	111100111110101





1401 10101111001	5361 1010011110001	53 1011101
33 1 100001	V 89 10100/1110001	1.6:1101
.110101111001	1010011110001	. 10 0 0 10 1
(0110 0010011 001	1010011110001	10 101
	141010111101011101	101000001
604 100110001		111111111111111111111111111111111111111
121 4 120 201		1073 4 1011 1011
	11101100000101	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1,000 11111 0101		1 11 11 10 1 6 1
1,000	100011 011101001	11100110101010
104 .1101101	4933 100101001001	5100110
1 11.0,1101	1 71 1	2475 .100110101001
. 110 101	100100	
1101101	(0010100100)	1 29 10 10 10 10 1
100011	1100000101111101	
1111101010101	3905 1111 01 000001	100000000000000000000000000000000000000
8017	1 33 1 1 100000	.00
199111000	19/11/01/00/00/1	- 01 0 50
1010100		0 5 1 0 0
/ 1 101010 0 0 1 / 1 101010 0 0 1	1000100001110101	100000000000000000000000000000000000000
111011001001001101		100000000000000000000000000000000000000
1110	83 01 10000001101101	160000001011010000
14601 11110110001	y 33 1110 Wallet	100000010000000000000000000000000000000
× 13 11110110001	000110110	10011111010
11 101 10001	100000011011000101	2549 100 1100
1000 0010 1000001	100100	10011111016
		1001111001
6321 110001010001	9329 100000 (010101 7 85 10000b1 2001	- 001
. 24 1 4	V 85 10000610001001	(111011111011
11000	(00000000000000000000000000000000000000	
1100010110001	1010110011010111110	134511 1 1011 01 000 1 V 25 Y
111101000000000001	10/01/00	1000 1011010001
	- (0 100101010101	11011010001
7429 111010000101	2464 1010	1010 0100110100
1 01 7 1 0000101	. 111 (00110100101	
	(00)   0,00	6573 11001101010
1110101111	11000011101101101	131 1100 110101101
- 01 111111110101	110000	1100110101101
. 00 VIIII 110101	2011/01/01	1100001101101
111 111 110101	8509 10000001110101	11010110111010100
1111110101	1 - 222 1/1 - 101	
10110001100001010	1000000111001	
	10001001111000101	



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7349 1100011001101
 11100011001
                          3301 110011100101
                           25 10110011100101
                         110011100101
 101010111101000001
                        101101111011111101
 25 * 110110110001
25 * 110110110001
                        993 1111100001
                         89 7 101100001
                         1 111 100001
  111 0110118801
                        10/11/00001
                        1111100001
  101110011001001001
                        1101100100111001
                        513 1000000001
 7217 1110000110001
      1100001
                        69 7 1000,01
  1 1110000110001
                            1000000001
 1110000110001
                       1000000000000
 1/10000110001
                       1000 101 00 100 0101
 10,0101010101010001
                      4905 10010001100001
 2485 100110110101
                       81 1 1010001
            1010001
  1010011011001
                        10000110001100001
  100110110101
                       10010001100001
 100110110101
                      [0111000001010110001
  000100100100100101
                      33 4 110 11110 001
 11001110001
1649 11001110001
                      2921 1111011110001
11001110001
                      (1001 10011 111 00 101
110010000100101101
                      3697 11100111000!
                       81 1 10001110001
1661 11061111101
x 81 1 x 1010001
                       111001110001
1100 1111101
                      100100 1000 1 1000001
100000110110001101
5265 10100010010001
                      2657 101001100001
                        10000110001001
            104001
 11010001 001 0001
10100010010001
10100010010001
110,60011100111001
                        11010100110001001
```



```
1 000 00 1 0 11 00 1 00 1 0 11 00 1
       11111000 11001
   111100011001
                       1000000,1,001
3961
  45
                       1000001011001
   100000000000000111001
                       101001111001000001
                            1100010101001
8193 100000000000001
                       633
                                   110001
                       × 49 4
  11100010191001
            10001
× 13
                       110001010100
                       1100010101001
                      1001011100001011001
  1000 100 000 000 10001
                      1423 10110010001
1049 10000011001
                              110101
                      53 4 110101
         110001
1,0000011001
                       10/01/00/0001
10000011001
                      100010001
11001 0001 1001001
                      10110010001
                      100100111 00000101
6449 1100100110001
× 49 × 11000 1
                     7621 1110111000101
                      x 89 3 10110111001
 1 1100100110001
 1100100110001
                      1110111 000101
1001101001001100001
                      0/110/11000101
                      11 10111000101
                      10100000 10010111101
× 29 # 101110010001
                      6581 1100110110101
 10/01/100/0001
                     x 93 y 10110101
  101110010001
 101110010001
 110011110110101
                       11100110110101
                     101100110110101
                      11.00110110101
                     1100(10110101
1201 1000001101001
                    1100001010111000001
     10001
  17
     1000001101001
 (000001101001
                     3983 111116010001
                       73 4 1001001
 [0001011011111001
                       111110010001
3213 110010001101
                       1000 1110000001 011001
  69 4 (000101
11001000110001101
                             1010001000101
                       5189
                              4 100001
1(01/000/000000000)
                       x 33
                              1010001000101
                         1010001000101
                         101001110011100101
```

### **MANUAL DE PRÁCTICAS**





```
10141111111 de 111 = 1010 al x 100 00 1 x 10 010 = 111 00 1111 0101
          10100001 x101 = 11 001010101
               1011010101 21000101 = 11001001101100001
                2985449=205665
F321 x65= 483865
                100001 x 1011001 = 10110 1111001
33189=2937
                1011011001101 × 100/001=11001111011010010
58 3 9 x 73 = 4 25 381
                8301769=52769
                1001100111001 × 111001=1000100011001110111011
6924x95=53965
                111110000101 × 1001 = 10000111111101
4921 ×52= 280437
3973217267581
              110010011101X1012 11110110010001
0 43 9x 5=32145
              1010000111101 x 10001 = 10100 111111011001
Sep3 > 33=165165
SIBI X3=121993
              111000012100001211101000001
              10001101 x 10000012 10001111001101
223435 7425
7541x45= 354545 1116161110161216110121018016110110010001
               1.111101011001 = 11001 = 11000 = 11111010001
               8025 x25=200625
              10100011001013111001 =
4321753=229493
5221 x 5+ -29 + 392
               5565×21=116865
               111011111111 01 21 000 001 = 1111 = 0111 = 1001111 01
1677265= 799005
               1110011011101 21011012 1 0011111111101011001
               7389 x 45= 332505
3521 793 =32 9513
              1 0 0 11 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 1 1 0 1
1245 265 286925
              11100100001 x 10101 = 1001010101010101010101
2281 x45=102645
3699x21= 96629
4865×25 = 1001100000001 ×11001 = 1000111101101
              11 000101001×1011101 51 00011110011100101
1577793= 146661
              11111010171010001 = 100100001000111101
1013 × 81 = 82053
               14061006111014.11001 = 11010101111.030101
7221241 = 296061
4381 x 25= 109 525
               AIIII PILIIPI XIPIPI = IDIDIPEPI O DILIODODDI
541×17 = 9197
8125×85=690625
               101101101 x1011001 = 1 + 000000 1 000 111001
365×84 = 32485
            14691 45=60105 10110111101 x101101=1 000001000111001
```

#### **MANUAL DE PRACTICAS**



V. Conclusiones: Las multiplicaciones de binario se responden con una simple operación en la cual se multiplica normal como cualquier otra operacion