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### *Actividad 1 - 26000186*

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#### **EJERCICIO 1**

1. “Empezamos el técnico en la Universidad Galileo.”

#### **Empezamos**

E = 69 → 01000101

69 / 2 = 34 → 1

34 / 2 = 17 → 0

17 / 2 = 8 → 1

8 / 2 = 4 → 0

4 / 2 = 2 → 0

2 / 2 = 1 → 0

1 / 2 = 0 → 1

m = 109 → 01101101

109 / 2 = 54 → 1

54 / 2 = 27 → 0

27 / 2 = 13 → 1

13 / 2 = 6 → 1

6 / 2 = 3 → 0

3 / 2 = 1 → 1

1 / 2 = 0 → 1

p = 112 → 01110000

$$112 / 2 = 56 \rightarrow 0$$

$$56 / 2 = 28 \rightarrow 0$$

$$28 / 2 = 14 \rightarrow 0$$

$$14 / 2 = 7 \rightarrow 0$$

$$7 / 2 = 3 \rightarrow 1$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$e = 101 \rightarrow 01100101$$

$$101 / 2 = 50 \rightarrow 1$$

$$50 / 2 = 25 \rightarrow 0$$

$$25 / 2 = 12 \rightarrow 1$$

$$12 / 2 = 6 \rightarrow 0$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$z = 122 \rightarrow 01111010$$

$$122 / 2 = 61 \rightarrow 0$$

$$61 / 2 = 30 \rightarrow 1$$

$$30 / 2 = 15 \rightarrow 0$$

$$15 / 2 = 7 \rightarrow 1$$

$$7 / 2 = 3 \rightarrow 1$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$a = 97 \rightarrow 01100001$

$97 / 2 = 48 \rightarrow 1$

$48 / 2 = 24 \rightarrow 0$

$24 / 2 = 12 \rightarrow 0$

$12 / 2 = 6 \rightarrow 0$

$6 / 2 = 3 \rightarrow 0$

$3 / 2 = 1 \rightarrow 1$

$1 / 2 = 0 \rightarrow 1$

$m = 109 \rightarrow 01101101$

$109 / 2 = 54 \rightarrow 1$

$54 / 2 = 27 \rightarrow 0$

$27 / 2 = 13 \rightarrow 1$

$13 / 2 = 6 \rightarrow 1$

$6 / 2 = 3 \rightarrow 0$

$3 / 2 = 1 \rightarrow 1$

$1 / 2 = 0 \rightarrow 1$

$o = 111 \rightarrow 01101111$

$111 / 2 = 55 \rightarrow 1$

$55 / 2 = 27 \rightarrow 1$

$27 / 2 = 13 \rightarrow 1$

$13 / 2 = 6 \rightarrow 1$

$6 / 2 = 3 \rightarrow 0$

$3 / 2 = 1 \rightarrow 1$

$1 / 2 = 0 \rightarrow 1$

s = 115 → 01110011

$115 / 2 = 57 \rightarrow 1$

$57 / 2 = 28 \rightarrow 1$

$28 / 2 = 14 \rightarrow 0$

$14 / 2 = 7 \rightarrow 0$

$7 / 2 = 3 \rightarrow 1$

$3 / 2 = 1 \rightarrow 1$

$1 / 2 = 0 \rightarrow 1$

(espacio) = 32 → 00100000

$32 / 2 = 16 \rightarrow 0$

$16 / 2 = 8 \rightarrow 0$

$8 / 2 = 4 \rightarrow 0$

$4 / 2 = 2 \rightarrow 0$

$2 / 2 = 1 \rightarrow 0$

$1 / 2 = 0 \rightarrow 1$

**el**

e = 101 → 01100101

$101 / 2 = 50 \rightarrow 1$

$50 / 2 = 25 \rightarrow 0$

$25 / 2 = 12 \rightarrow 1$

$12 / 2 = 6 \rightarrow 0$

$6 / 2 = 3 \rightarrow 0$

$3 / 2 = 1 \rightarrow 1$

$$1 / 2 = 0 \rightarrow 1$$

$$l = 108 \rightarrow 01101100$$

$$108 / 2 = 54 \rightarrow 0$$

$$54 / 2 = 27 \rightarrow 0$$

$$27 / 2 = 13 \rightarrow 1$$

$$13 / 2 = 6 \rightarrow 1$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$(\text{espacio}) = 32 \rightarrow 00100000$$

$$32 / 2 = 16 \rightarrow 0$$

$$16 / 2 = 8 \rightarrow 0$$

$$8 / 2 = 4 \rightarrow 0$$

$$4 / 2 = 2 \rightarrow 0$$

$$2 / 2 = 1 \rightarrow 0$$

$$1 / 2 = 0 \rightarrow 1$$

### **técnico**

$$t = 116 \rightarrow 01110100$$

$$116 / 2 = 58 \rightarrow 0$$

$$58 / 2 = 29 \rightarrow 0$$

$$29 / 2 = 14 \rightarrow 1$$

$$14 / 2 = 7 \rightarrow 0$$

$$7 / 2 = 3 \rightarrow 1$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$é = 233 \rightarrow 11101001$$

$$233 / 2 = 116 \rightarrow 1$$

$$116 / 2 = 58 \rightarrow 0$$

$$58 / 2 = 29 \rightarrow 0$$

$$29 / 2 = 14 \rightarrow 1$$

$$14 / 2 = 7 \rightarrow 0$$

$$7 / 2 = 3 \rightarrow 1$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$c = 99 \rightarrow 01100011$$

$$99 / 2 = 49 \rightarrow 1$$

$$49 / 2 = 24 \rightarrow 1$$

$$24 / 2 = 12 \rightarrow 0$$

$$12 / 2 = 6 \rightarrow 0$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$n = 110 \rightarrow 01101110$$

$$110 / 2 = 55 \rightarrow 0$$

$$55 / 2 = 27 \rightarrow 1$$

$$27 / 2 = 13 \rightarrow 1$$

$$13 / 2 = 6 \rightarrow 1$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$i = 105 \rightarrow 01101001$$

$$105 / 2 = 52 \rightarrow 1$$

$$52 / 2 = 26 \rightarrow 0$$

$$26 / 2 = 13 \rightarrow 0$$

$$13 / 2 = 6 \rightarrow 1$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$c = 99 \rightarrow 01100011$$

$$99 / 2 = 49 \rightarrow 1$$

$$49 / 2 = 24 \rightarrow 1$$

$$24 / 2 = 12 \rightarrow 0$$

$$12 / 2 = 6 \rightarrow 0$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$o = 111 \rightarrow 01101111$$

$$111 / 2 = 55 \rightarrow 1$$

$$55 / 2 = 27 \rightarrow 1$$

$$27 / 2 = 13 \rightarrow 1$$

$$13 / 2 = 6 \rightarrow 1$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$(\text{espacio}) = 32 \rightarrow 00100000$$

$$32 / 2 = 16 \rightarrow 0$$

$$16 / 2 = 8 \rightarrow 0$$

$$8 / 2 = 4 \rightarrow 0$$

$$4 / 2 = 2 \rightarrow 0$$

$$2 / 2 = 1 \rightarrow 0$$

$$1 / 2 = 0 \rightarrow 1$$

**en**

$$e = 101 \rightarrow 01100101$$

$$101 / 2 = 50 \rightarrow 1$$

$$50 / 2 = 25 \rightarrow 0$$

$$25 / 2 = 12 \rightarrow 1$$

$$12 / 2 = 6 \rightarrow 0$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$n = 110 \rightarrow 01101110$$

$$110 / 2 = 55 \rightarrow 0$$



$$55 / 2 = 27 \rightarrow 1$$

$$27 / 2 = 13 \rightarrow 1$$

$$13 / 2 = 6 \rightarrow 1$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$(\text{espacio}) = 32 \rightarrow 00100000$$

$$32 / 2 = 16 \rightarrow 0$$

$$16 / 2 = 8 \rightarrow 0$$

$$8 / 2 = 4 \rightarrow 0$$

$$4 / 2 = 2 \rightarrow 0$$

$$2 / 2 = 1 \rightarrow 0$$

$$1 / 2 = 0 \rightarrow 1$$

**la**

$$l = 108 \rightarrow 01101100$$

$$108 / 2 = 54 \rightarrow 0$$

$$54 / 2 = 27 \rightarrow 0$$

$$27 / 2 = 13 \rightarrow 1$$

$$13 / 2 = 6 \rightarrow 1$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$a = 97 \rightarrow 01100001$$

$$97 / 2 = 48 \rightarrow 1$$

$$48 / 2 = 24 \rightarrow 0$$

$$24 / 2 = 12 \rightarrow 0$$

$$12 / 2 = 6 \rightarrow 0$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$(\text{espacio}) = 32 \rightarrow 00100000$$

$$32 / 2 = 16 \rightarrow 0$$

$$16 / 2 = 8 \rightarrow 0$$

$$8 / 2 = 4 \rightarrow 0$$

$$4 / 2 = 2 \rightarrow 0$$

$$2 / 2 = 1 \rightarrow 0$$

$$1 / 2 = 0 \rightarrow 1$$

## **Universidad**

$$U = 85 \rightarrow 01010101$$

$$85 / 2 = 42 \rightarrow 1$$

$$42 / 2 = 21 \rightarrow 0$$

$$21 / 2 = 10 \rightarrow 1$$

$$10 / 2 = 5 \rightarrow 0$$

$$5 / 2 = 2 \rightarrow 1$$

$$2 / 2 = 1 \rightarrow 0$$

$$1 / 2 = 0 \rightarrow 1$$

$n = 110 \rightarrow 01101110$

$110 / 2 = 55 \rightarrow 0$

$55 / 2 = 27 \rightarrow 1$

$27 / 2 = 13 \rightarrow 1$

$13 / 2 = 6 \rightarrow 1$

$6 / 2 = 3 \rightarrow 0$

$3 / 2 = 1 \rightarrow 1$

$1 / 2 = 0 \rightarrow 1$

$i = 105 \rightarrow 01101001$

$105 / 2 = 52 \rightarrow 1$

$52 / 2 = 26 \rightarrow 0$

$26 / 2 = 13 \rightarrow 0$

$13 / 2 = 6 \rightarrow 1$

$6 / 2 = 3 \rightarrow 0$

$3 / 2 = 1 \rightarrow 1$

$1 / 2 = 0 \rightarrow 1$

$v = 118 \rightarrow 01110110$

$118 / 2 = 59 \rightarrow 0$

$59 / 2 = 29 \rightarrow 1$

$29 / 2 = 14 \rightarrow 1$

$14 / 2 = 7 \rightarrow 0$

$7 / 2 = 3 \rightarrow 1$

$3 / 2 = 1 \rightarrow 1$

$1 / 2 = 0 \rightarrow 1$

$e = 101 \rightarrow 01100101$

$101 / 2 = 50 \rightarrow 1$

$50 / 2 = 25 \rightarrow 0$

$25 / 2 = 12 \rightarrow 1$

$12 / 2 = 6 \rightarrow 0$

$6 / 2 = 3 \rightarrow 0$

$3 / 2 = 1 \rightarrow 1$

$1 / 2 = 0 \rightarrow 1$

$r = 114 \rightarrow 01110010$

$114 / 2 = 57 \rightarrow 0$

$57 / 2 = 28 \rightarrow 1$

$28 / 2 = 14 \rightarrow 0$

$14 / 2 = 7 \rightarrow 0$

$7 / 2 = 3 \rightarrow 1$

$3 / 2 = 1 \rightarrow 1$

$1 / 2 = 0 \rightarrow 1$

$s = 115 \rightarrow 01110011$

$115 / 2 = 57 \rightarrow 1$

$57 / 2 = 28 \rightarrow 1$

$28 / 2 = 14 \rightarrow 0$

$14 / 2 = 7 \rightarrow 0$

$7 / 2 = 3 \rightarrow 1$

$3 / 2 = 1 \rightarrow 1$

$$1 / 2 = 0 \rightarrow 1$$

$$i = 105 \rightarrow 01101001$$

$$105 / 2 = 52 \rightarrow 1$$

$$52 / 2 = 26 \rightarrow 0$$

$$26 / 2 = 13 \rightarrow 0$$

$$13 / 2 = 6 \rightarrow 1$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$d = 100 \rightarrow 01100100$$

$$100 / 2 = 50 \rightarrow 0$$

$$50 / 2 = 25 \rightarrow 0$$

$$25 / 2 = 12 \rightarrow 1$$

$$12 / 2 = 6 \rightarrow 0$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$a = 97 \rightarrow 01100001$$

$$97 / 2 = 48 \rightarrow 1$$

$$48 / 2 = 24 \rightarrow 0$$

$$24 / 2 = 12 \rightarrow 0$$

$$12 / 2 = 6 \rightarrow 0$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$d = 100 \rightarrow 01100100$$

$$100 / 2 = 50 \rightarrow 0$$

$$50 / 2 = 25 \rightarrow 0$$

$$25 / 2 = 12 \rightarrow 1$$

$$12 / 2 = 6 \rightarrow 0$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

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$$16 / 2 = 8 \rightarrow 0$$

$$8 / 2 = 4 \rightarrow 0$$

$$4 / 2 = 2 \rightarrow 0$$

$$2 / 2 = 1 \rightarrow 0$$

$$1 / 2 = 0 \rightarrow 1$$

### **Galileo**

$$G = 71 \rightarrow 01000111$$

$$71 / 2 = 35 \rightarrow 1$$

$$35 / 2 = 17 \rightarrow 1$$

$$17 / 2 = 8 \rightarrow 1$$

$$8 / 2 = 4 \rightarrow 0$$

$$4 / 2 = 2 \rightarrow 0$$

$$2 / 2 = 1 \rightarrow 0$$

$$1 / 2 = 0 \rightarrow 1$$

$$a = 97 \rightarrow 01100001$$

$$97 / 2 = 48 \rightarrow 1$$

$$48 / 2 = 24 \rightarrow 0$$

$$24 / 2 = 12 \rightarrow 0$$

$$12 / 2 = 6 \rightarrow 0$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$l = 108 \rightarrow 01101100$$

$$108 / 2 = 54 \rightarrow 0$$

$$54 / 2 = 27 \rightarrow 0$$

$$27 / 2 = 13 \rightarrow 1$$

$$13 / 2 = 6 \rightarrow 1$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$i = 105 \rightarrow 01101001$$

$$105 / 2 = 52 \rightarrow 1$$

$$52 / 2 = 26 \rightarrow 0$$

$$26 / 2 = 13 \rightarrow 0$$

$$13 / 2 = 6 \rightarrow 1$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$l = 108 \rightarrow 01101100$$

$$108 / 2 = 54 \rightarrow 0$$

$$54 / 2 = 27 \rightarrow 0$$

$$27 / 2 = 13 \rightarrow 1$$

$$13 / 2 = 6 \rightarrow 1$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$e = 101 \rightarrow 01100101$$

$$101 / 2 = 50 \rightarrow 1$$

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$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

$$o = 111 \rightarrow 01101111$$

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$$55 / 2 = 27 \rightarrow 1$$



$$27 / 2 = 13 \rightarrow 1$$

$$13 / 2 = 6 \rightarrow 1$$

$$6 / 2 = 3 \rightarrow 0$$

$$3 / 2 = 1 \rightarrow 1$$

$$1 / 2 = 0 \rightarrow 1$$

## 2. "Renzo Castillo"

$$R = 82 \rightarrow 01010010$$

$$e = 101 \rightarrow 01100101$$

$$n = 110 \rightarrow 01101110$$

$$z = 122 \rightarrow 01111010$$

$$o = 111 \rightarrow 01101111$$

$$(\text{espacio}) = 32 \rightarrow 00100000$$

$$C = 67 \rightarrow 01000011$$

$$a = 97 \rightarrow 01100001$$

$$s = 115 \rightarrow 01110011$$

$$t = 116 \rightarrow 01110100$$

$$i = 105 \rightarrow 01101001$$

$$l = 108 \rightarrow 01101100$$

$$l = 108 \rightarrow 01101100$$

$$o = 111 \rightarrow 01101111$$