Teorema Seja a EN. Y b EN' (0,1) JM, Co, ..., C_n EN t.q. a=co+c,b+...+c,b" e D<c;<b +i=0,...,m. Além disso, tais n, co, ..., con são unicamente determinados.

$$(11435)_{10} = (45224)_{7} = (26253)_{8}$$

base 8 -> base 10

$$(26253)_{8} = 2.8^{4} + 6.8^{3} + 2.8^{2} + 5.8 + 3 = -$$

$$\frac{\binom{137}{8}}{\binom{211}{8}} = \frac{\binom{1}{137}}{\binom{137}{8}} = \binom{\binom{1}{137}}{\binom{137}{8}} = \binom{\binom{1}{137}}{\binom{137}{137}} = \binom{\binom{1}{137}}{\binom{137}}{\binom{137}{137}}$$

base 16: 0, ..., 9, A, B, C, D, E, F

$$(5364)_{16} = 21348$$

$$F = 15$$
 $(10) = 16$

$$(7ACC)_{14} = 21348 = (10430)_{12} = (5364)_{16}$$

$$7.1i^{3} + A.1i^{4} + C.14 + C = 7.1i^{3} + 10.14^{2} + 12.14 + 12 = 21348$$

 $(7ACC)_{14} + (1.14^{3} + 1.14^{2} + 13.14 + 0 = 30562$
 $(14 C 3 C)_{14}$
 $(14 C 3 C)_{14}$

2 | Q sie 2 | Co se
$$C_0 \in \{0, 2, 4, 6, 8\}$$

3 | Q sie 3 $\sum_{i=0}^{m} C_i$

$$7 | C_n | SSE | C_n |$$

$$7 \mid C_m \cdot 10 + \cdots + C_2 \cdot \cdots + C_2 \cdot$$

$$| \sum_{i} C_{2i} - \sum_{i} C_{2i+1} |$$
 $| C_{0} + C_{2} + ... - (C_{1} + C_{2} + ...) \in mult de 11$

143 284 792 411 = 0 2/Q pois Cp=1 3/10 pois 10=1 (med 3) 1+4+3+2+8+4+7+9+2+4+1+1=46 - 4+6=10 5ta pois co \$ (0,5) 143284792411-> 14328479241-2.1= 14328479239 -> 1432847905 -> -> 163284780 -> 16328478 -> 1632831 -> 163281 -> 1420 -> 142 -> 10 7/10 => 7+Q 11 Q Me 11 1+4+9+4+2+4-(1+2+7+8+3+1) = 20-22=-2 11/-2 => 11/0,

$$2 | Q = C_{-1} \cdot 0^{2} + ... + C_{1} \cdot 10 + C_{0} \quad \text{ASR} \quad 2 | C_{0}$$

$$2 | Q \quad \text{ASE} \quad Q = 0 \pmod{2}$$

$$\forall i \ge 1, \quad 10^{2} = 0 \pmod{2} \quad (\text{prove por induction em i})$$

$$C_{m} \cdot 10^{m} + ... + C_{1} \cdot 10 + C_{0} = \sum_{(md2)} C_{m} \cdot 0 + ... + C_{1} \cdot 0 + C_{0} = C_{0} =)$$

$$Q = 0 \pmod{2} \quad \text{Are} \quad \sum_{(md2)} | C_{m} \cdot 0 + ... + C_{k-1} \cdot 0 + C_{0} = C_{0} =)$$

$$2^{k} | Q \quad \text{Are} \quad \sum_{(k \le m)} | C_{m} \cdot 0 + ... + C_{k-1} \cdot 10^{k-1}$$

$$A | Q \quad \text{Are} \quad \sum_{(md2)} | C_{m} \cdot 10^{k} + ... + C_{k-1} \cdot 10^{$$