Objectives - 1/18/2022 (Tue)

- Number bases
- ASCII

two-hundred sixty-four 102 10' 10° 100's 10's 1's $264 = 100 \times 2$ 10×6 ×Ц 264

disits O to f base 16 0 to 9 base 10 base 36 O to Z base 2 O to |

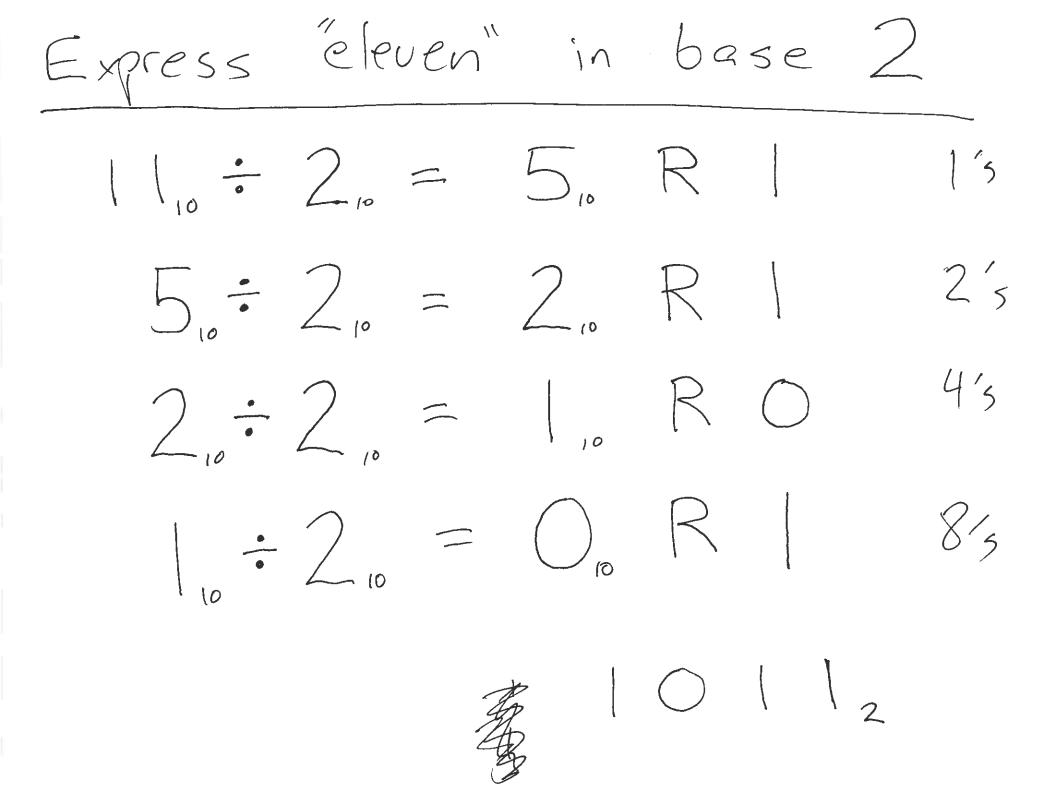
"five" from base 2 (binary) 4s 2s Is 4×1 2 2 7 base \times × | 10 10

"five"

5,0 decimal base 10

binary base 2 (2° 2° 3 2° 3) 4' 2' 2' 1's $|O|_{2}$ 4 × 1 2×0 × (





"eleven" - express in base 2 e 0 e 0 00 base to place 25 plase 4s place R 8s place 25 43 5 83 2

Eleven in base 2 85 45 23 15 $S_{10} \times ($ $4_{10} \times ($ 2 \bigcirc Lox / + 01

"two-hundred sixty-four" powers of 10 1005 105 15 100×2 10×6 × 264 For each possible position 10 possible digits

"Sixty-five" expressed in base & (octal) - 8 RI 65 ____ - 8 () \square R Fowers of 8 645 85 15 In C code: $\bigcirc 1$

Do NOT Say.... X print_integer converts from decimal to some other base."

V print-integer expresses a value in a given number base."

I A variable is just a guantity and has no inherent number base.

To the compiler (gcc),) is the same as 41 or or Ox 29 051 8's 1's 5 | 8×5 - 41

If your code refers to a character, then use a character constant.