

Section 4.2:

2) a) 321:

$$\begin{aligned} 321 &= 2 \cdot 160 + 1 & a_0 &= 1 \\ 160 &= 2 \cdot 80 + 0 & a_1 &= 0 \\ 80 &= 2 \cdot 40 + 0 & a_2 &= 0 \\ 40 &= 2 \cdot 20 + 0 & a_3 &= 0 \\ 20 &= 2 \cdot 10 + 0 & a_4 &= 0 \\ 10 &= 2 \cdot 5 + 0 & a_5 &= 0 \\ 5 &= 2 \cdot 2 + 1 & a_6 &= 1 \\ 2 &= 2 \cdot 1 + 0 & a_7 &= 0 \\ 1 &= 0 \cdot 2 + 1 & a_8 &= 1 \end{aligned}$$

$$(100000101)_2$$

b) 1023:

$$\begin{aligned} 1023 &= 2 \cdot 511 + 1 & a_0 &= 1 \\ 511 &= 2 \cdot 255 + 1 & a_1 &= 1 \\ 255 &= 2 \cdot 127 + 1 & a_2 &= 1 \\ 127 &= 2 \cdot 63 + 1 & a_3 &= 1 \\ 63 &= 2 \cdot 31 + 1 & a_4 &= 1 \\ 31 &= 2 \cdot 15 + 1 & a_5 &= 1 \\ 15 &= 2 \cdot 7 + 1 & a_6 &= 1 \\ 7 &= 2 \cdot 3 + 1 & a_7 &= 1 \\ 3 &= 2 \cdot 1 + 1 & a_8 &= 1 \\ 1 &= 0 \cdot 2 + 1 & a_9 &= 1 \end{aligned}$$

$$(1111111111)_2$$

c) 100632:

$$\begin{aligned} 100632 &= 2 \cdot 50316 + 0 \\ 50316 &= 2 \cdot 25158 + 0 \\ 25158 &= 2 \cdot 12579 + 0 \\ 12579 &= 2 \cdot 6289 + 1 \\ 6289 &= 2 \cdot 3144 + 1 \\ 3144 &= 2 \cdot 1572 + 0 \\ 1572 &= 2 \cdot 786 + 0 \\ 786 &= 2 \cdot 393 + 0 \\ 393 &= 2 \cdot 196 + 1 \\ 196 &= 2 \cdot 98 + 0 \\ 98 &= 2 \cdot 49 + 0 \end{aligned}$$

$$\begin{aligned} a_0 &= 0 \\ a_1 &= 0 \\ a_2 &= 0 \\ a_3 &= 1 \\ a_4 &= 1 \\ a_5 &= 0 \\ a_6 &= 0 \\ a_7 &= 0 \\ a_8 &= 1 \\ a_9 &= 0 \\ a_{10} &= 0 \end{aligned}$$

$$\begin{aligned} 49 &= 2 \cdot 24 + 1 & a_{11} &= 1 \\ 24 &= 2 \cdot 12 + 0 & a_{12} &= 0 \\ 12 &= 2 \cdot 6 + 0 & a_{13} &= 0 \\ 6 &= 2 \cdot 3 + 0 & a_{14} &= 0 \\ 3 &= 2 \cdot 1 + 1 & a_{15} &= 1 \\ 1 &= 2 \cdot 0 + 1 & a_{16} &= 1 \end{aligned}$$

$$(11000100100011000)_2$$

3) Convert the ~~decimal~~ ^{binary} expansion of each of these integers to a ~~binary~~ ^{decimal} expansion.

a) $(11111)_2$

$$2^4 \cdot 1 + 1 \cdot 2^3 + 1 \cdot 2^2 + 1 \cdot 2^1 + 1 \cdot 2^0 = 16 + 8 + 4 + 2 + 1 = 31$$

b) $(1000000001)_2$

$$= 1 \cdot 2^9 + 0 \cdot (2^8 + 2^7 + 2^6 + 2^5 + 2^4 + 2^3 + 2^2) + 0 \cdot 2^1 + 1 \cdot 2^0 = 512 + 1 = 513$$

c) $(10101010101)_2$

$$= 1 \cdot 2^8 + 0 \cdot 2^7 + 1 \cdot 2^6 + 0 \cdot 2^5 + 1 \cdot 2^4 + 0 \cdot 2^3 + 1 \cdot 2^2 + 0 \cdot 2^1 + 1 \cdot 2^0 = 256 + 64 + 16 + 4 + 1 = 341$$

d) $(110100100010000)_2$

$$= 1 \cdot 2^{14} + 1 \cdot 2^{13} + 0 \cdot 2^{12} + 1 \cdot 2^{11} + 0 \cdot 2^{10} + 0 \cdot 2^9 + 1 \cdot 2^8 + 0 \cdot 2^7 + 0 \cdot 2^6 + 0 \cdot 2^5 + 1 \cdot 2^4 + 0 \cdot (2^3 + 2^2 + 2^1 + 2^0) = 16384 + 8192 + 7048 + 256 + 16 + 0 = 26896$$

6) Convert the binary expansion of each of these integers to an octal expansion.

a) $(11110111)_2$

$$= 1 \cdot 2^7 + 1 \cdot 2^6 + 1 \cdot 2^5 + 1 \cdot 2^4 + 0 \cdot 2^3 + 1 \cdot 2^2 + 1 \cdot 2^1 + 1 \cdot 2^0 = 128 + 64 + 32 + 16 + 4 + 2 + 1 = 247$$

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Liyong Dong



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