

1.6.1

$$a) 100011_2 = 1 \cdot 2^5 + 0 + 0 + 0 + 1 \cdot 2^1 + 1 = 32 + 2 + 1 = 35_{10}$$

$$b) 110011_2 = 1 \cdot 2^5 + 1 \cdot 2^4 + 0 + 0 + 1 \cdot 2^1 + 1 = 32 + 16 + 2 + 1 = 51_{10}$$

$$c) 100000_2 = 1 \cdot 2^5 = 32_{10}$$

$$d) 110100_2 = 1 \cdot 2^5 + 1 \cdot 2^4 + 0 + 1 \cdot 2^2 + 0 + 0 = 32 + 16 + 4 = 52_{10}$$

1.6.2

$$a) 50_{10} \quad 50_{10} = 110010_2$$

$$0 \ 25 \ 22$$

$$1 \ 12 \ 22$$

$$0 \ 6 \ 22$$

$$0 \ 3 \ 22$$

$$1 \ 1$$

$$b) 66_{10} \quad 66_{10} = 1000010_2$$

$$0 \ 33 \ 22$$

$$1 \ 16 \ 22$$

$$0 \ 8 \ 22$$

$$0 \ 4 \ 22$$

$$0 \ 2 \ 22$$

$$0 \ 1$$



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