

- [CPSC 275: Introduction to Computer Systems](#)

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Fall 2025

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Solution to Homework 2

- 1.
- 0011 1001 1010 0111 1111 1000
 - C97B
 - 1101 0101 1110 0100 1100
 - 0x26E7B5

- 2.
- 10010110
 - 10101010
 - 01000001
 - 01111101
 - 00111100
 - 1
 - 1
 - 0
 - 1

3.

n	2^n (Decimal)	2^n (Hexadecimal)
9	512	0x200
19	524,288	0x80000
14	16,384	0x4000
16	65,536	0x10000
17	131,072	0x20000
5	32	0x20
7	128	0x80

4.

	Decimal	Binary	Hexadecimal
0	0	0000 0000	0x00
167 = 10 . 16 + 7	10 . 16 + 7	1010 0111	0xA7
62 = 3 . 16 + 14	3 . 16 + 14	0011 1110	0x3E
188 = 11 . 16 + 12	11 . 16 + 12	1011 1100	0xBC
3 . 16 + 7 = 55	3 . 16 + 7 = 55	0011 0111	0x37
8 . 16 + 8 = 136	8 . 16 + 8 = 136	1000 1000	0x88
15 . 16 + 3 = 243	15 . 16 + 3 = 243	1111 0011	0xF3
5 . 16 + 2 = 82	5 . 16 + 2 = 82	0101 0010	0x52
10 . 16 + 12 = 172	10 . 16 + 12 = 172	1010 1100	0xAC
14 . 16 + 7 = 231	14 . 16 + 7 = 231	1110 0111	0xE77

- Welcome: Sean

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