Homework 1

CS270 Fall 2020

Brennen Green

$1\quad \text{Practice Problems 2.17, 2.19, 2.24, 2.29, 2.47}$

	Hexadecimal	Binary	$B2U_4(x)$	$B2T_4(x)$	
(2.17)	0xA	1010	$2^3 + 2^1 = 10$	$-2^3 + 2^1 = -6$	
	0x1	0001	$2^0 = 1$	$2^0 = 1$	
	0xB	1011	$2^3 + 2^1 + 2^0 = 11$	$-2^3 + 2^1 + 2^0 = -5$	
	0x2	0010	$2^1 = 2$	$2^1 = 2$	
	0x7	0111	$2^2 + 2^1 + 2^0 = 7$	$2^2 + 2^1 + 2^0 = 7$	
	0xC	1100	$2^3 + 2^2 = 12$	$-2^3 + 2^2 = -4$	

	X	$T2U_4(x)$
	-1	15
, (-5	11
(2.19)	-6	10
	-4	12
	1	1
	8	8

	Original	Truncated	Original	Truncated	Original	Truncated
(2.24)	1	1	1	1	1	1
	3	3	3	3	3	3
	5	5	5	5	5	5
	С	4	12	4	-4	-4
[E	6	14	6	-2	-2

	X	У	x + y	x + t 5 y	Case
(2.29)	10100	10001	100101	00101	1
	11000	11000	110000	10000	2
	10111	01000	111111	11111	2
	00010	00101	000111	00111	3
[01100	00100	010000	10000	4

(2.47)

- 2 Homework Problems 2.77
- 3 L2_show-bytes.c