파일명: HW#2_학번_이름.pdf HW#2_2015251165_강민성.pdf

이름: 강민성

학번: 2015251165

표 1 2진수 덧셈

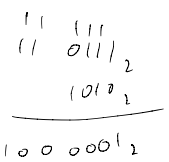
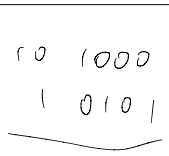
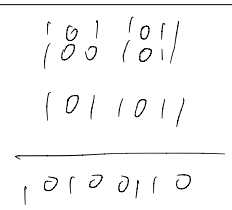
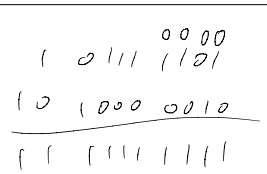
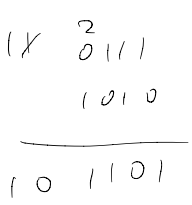
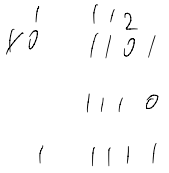
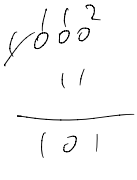
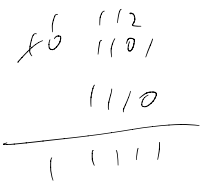
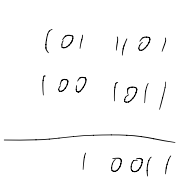
문제	$11\ 0111_2 + 1010_2$	$1001_2 + 1101_2$	$1\ 11112 + 1111_2$
풀이			
정답	$100\ 0001_2$	11111_2	101110_2
문제	$10\ 1000_2 + 1\ 0101_2$	$100\ 1011_2 + 101\ 1011_2$	$1\ 0111\ 1101_2 + 10\ 1000\ 0010_2$
풀이			
정답	$11\ 1101_2$	$1010\ 0110$	$11\ 1111\ 1111_2$

표 2 2진수 뺄셈

문제	$11\ 0111_2 - 1010_2$	$10\ 1101_2 - 1110_2$	$1011_2 - 101_2$
풀이			
정답	$10\ 1101_2$	$1\ 1111_2$	110_2
문제	$1000_2 - 11_2$	$10\ 1101_2 - 1110_2$	$101\ 1011_2 - 100\ 1011_2$
풀이			
정답	101_2	$1\ 1111_2$	10011_2

파일명: HW#2_학번_이름.pdf

이름:

학번:

표 3 2진수 곱셈, 나눗셈

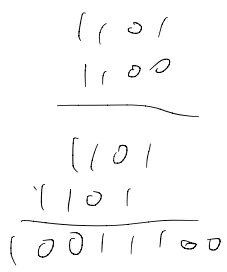
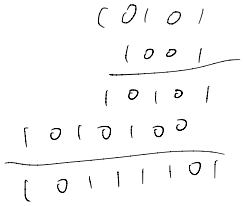
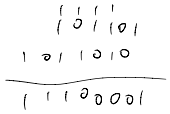
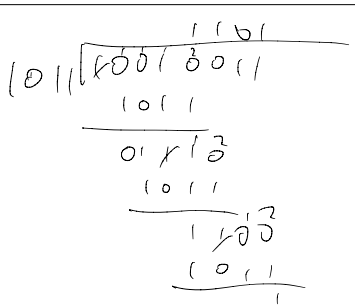
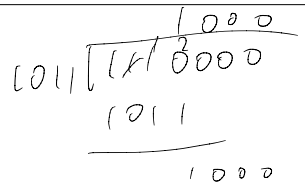
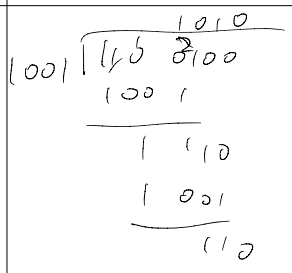
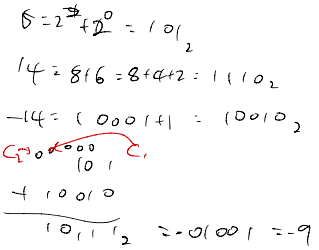
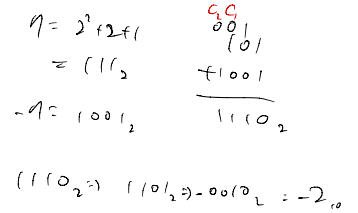
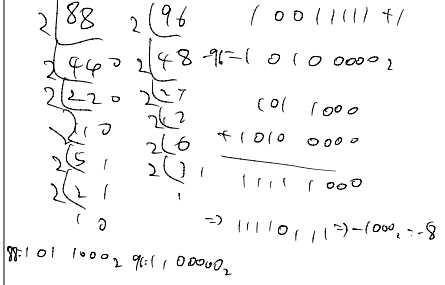
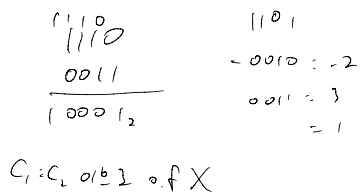
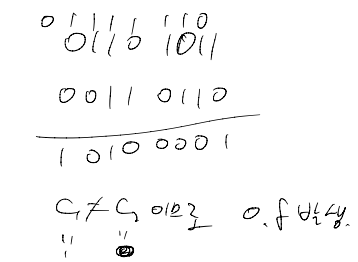
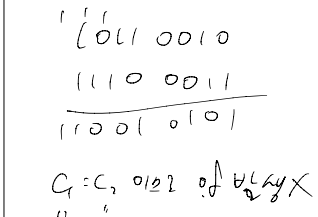
문제	1100_2 x 1101_2	1001_2 x 10101_2	101101_2 x 101_2
풀이 곱셈			
정답	10011100_2	10111101_2	11100001_2
문제	$1001\ 0011_2$ ÷ 1011_2	$111\ 0000_2$ ÷ 1011_2	$110\ 0100_2$ ÷ 1001_2
풀이 나눗셈			
정답	몫 1101 나머지 1	몫 1000, 나머지 1000	몫 1010 나머지 110

표 4 2의 보수 덧셈 / 오버플로우 발생 여부

문제	5_{10} - 14_{10}	5_{10} - 7_{10}	88_{10} - 96_{10}
풀이			
정답	$10111_2 = -9$ $C_1 = C_2$이고 overflow 아님	$1110_2 = -2$ $C_1 = C_2$이고 overflow 아님	$11110000_2 = -8$ overflow
문제	1110_2 + 0011_2	$0110\ 1011_2$ + $0011\ 0110_2$	$1011\ 0010_2$ + $1110\ 0011_2$
풀이			
정답	0001_2	10100001_2	$1001\ 0101_2$
정답	오버플로우 발생(O , X)	오버플로우 발생(O , X)	오버플로우 발생(O , X)