

CMSI 284-02

COMPUTER SYSTEMS ORGANIZATION/ SYSTEMS PROGRAMMING

Spring 2016

Assignment 0209 Feedback

Please consult the written feedback (on GitHub if you submitted electronically; written on your submission if you submitted on paper) to determine points of improvement (if any). If anything is unclear, don't hesitate to ask me or a class TA.

To assist with questions, the number/character choices that you supplied, along with our interpretation of your written answer, are also included.

Harris Lummis

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	<i>Your Selection or Answer</i>	<i>1a</i>	<i>1b</i>	<i>4d</i>	<i>4f</i>
1.1	-31567			+	
1.1a	33969	+			
1.1b	84B1	+			
1.1c	1000 0100 1011 0001	+			
1.2	CAFE			+	
1.2a	51966	+			
1.2b	-13570	+			
1.2c	1100 1010 1111 1110	+			
1.3	1E+00			+	
1.3a	480	+			
1.3b	480	+			
1.3c	0000 0001 1110 0000	+			
1.4	1011 0111			/	
1.4a	183				
1.4b	73	-			
1.4c	B7				
1.5	890B			+	
1.5a	35083	+			
1.5b	-30453	+			
1.5c	1000 1001 0000 1011	+			
1.6	48391			+	
1.6a	-17145	+			
1.6b	BD07	+			
1.6c	1011 1101 0000 0111	+			
1.7	93			+	
1.7a	93	+			
1.7b	005D	+			
1.7c	0000 0000 0101 1101	+			

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1.8	-143				+
1.8a	65393	+			
1.8b	FF71	+			
1.8c	1111 1111 0111 0001	+			
1.9	0001 1101 1100 1100				+
1.9a	7628	+			
1.9b	7628	+			
1.9c	1DCC	+			
1.10	365B				+
1.10a	13915	+			
1.10b	13915	+			
1.10c	0011 0110 0101 1011	+			
2					+
2.1	ABCD; your negative = 5433	+			
2.2	E3F0; your negative = 1C10	+			
2.3	8F03; your negative = 70FD	+			
2.4	4BDC; your negative = B424	+			
2.5	01BF; your negative = FE41	+			
3					+
3.1	28C6 + 5A31				
3.1a	saturated: 7FFF	+			
3.1b	modular: 82F7	+			
3.1c	carry: n	+			
3.1d	overflow: y	+			
3.2	70F2 + E7CD				
3.2a	saturated: 58BF	+			
3.2b	modular: 58BF	+			
3.2c	carry: y	+			
3.2d	overflow: n	+			

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	<i>Your Selection or Answer</i>	<i>1a 1b 4d 4f</i>
3.3	BBAA + 8ACE	
3.3a	saturated: 8000	+
3.3b	modular: 4778	
3.3c	carry: y	+
3.3d	overflow: y	+
3.4	A14B + 9A70	
3.4a	saturated: 8000	+
3.4b	modular: 3BBB	+
3.4c	carry: y	+
3.4d	overflow: y	+
3.5	A219 + 2ADE	
3.5a	saturated: CCF7	+
3.5b	modular: CCF7	+
3.5c	carry: n	+
3.5d	overflow: n	+
3.6	5800 + 0FAA	
3.6a	saturated: 67AA	+
3.6b	modular: 67AA	+
3.6c	carry: n	+
3.6d	overflow: n	+
3.7	C000 + C000	
3.7a	saturated: 8000	+
3.7b	modular: 8000	+
3.7c	carry: y	+
3.7d	overflow: n	+
4.1	Minimum capacity (gigabytes), price: 4000, \$249.99 Maximum capacity (gigabytes), price: 12000, \$499.99	
4.2a	\$0.000000062497500	+
4.2b	\$0.000000041665800	+
4.2c	\$0.00	+
4.3a	\$0.000000058205300000000000000000	+
4.3b	\$0.000000038804300000000000000000	+
4.3c	\$0.00000001940100000000000000	+

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5.1	0.5625				+
5.1a	3F 10 00 00	+			
5.1b	3F E2 00 00 00 00 00 00	+			
5.2a	2 ²⁴ + 1	+			
5.2b	2 ⁵³ + 1	+			
5.3	47 2A 6B 31				+
5.3a	1.01010100110101100110001 x 2 ¹⁵	+			
5.3b	4.36271252441797 x 10 ⁴	+			
5.4	0352 1126 89A2 BC03				+
5.4a	1.0010000100010010011010001001101000101011110000000011 x 2 ⁽⁻⁹⁷⁰⁾	+			
5.4b	1/2 ⁽⁻⁹⁷⁰⁾ + 1/2 ⁽⁻⁹⁷³⁾ + 1/2 ⁽⁻⁹⁷⁸⁾ + ...	+			
6.1	10 3B DE				+
6.1a	F4 83 AF 9E		+		
6.1b	DB 8E DF DE		+		
6.1c	00 10 3B DE		+		
6.2	(H)a(r)(r)is L 24BD 0061 24E1 24E1 0069 0073 0020 24C1				+
6.2a	E2 92 BD 61 E2 93 A1 E2 93 A1 69 73 20 E2 93 81		+		
6.2b	24 BD 00 61 24 E1 24 E1 00 69 00 73 00 20 24 C1		+		
6.2c	0000 24BD 0000 0061 0000 24E1 0000 24E1 0000 0069 0000 0073 0000 0020 0000 24C1		+		
6.3	26F0 1F3D5 1F304 1F30C				+
6.3a	E2 9B B0 F0 9F 8F 95 F0 9F 8C 84 F0 9F 8C 8C		+		
6.3b	26 F0 D8 3C DF D5 D8 3C DF 04 D8 3C DF 0A		+		
6.3c	00 00 26 F0 00 01 F3 D5 00 01 F3 04 00 01 F3 0C		+		
6.4			+		
Overall		+	+	+	+