

CMSI 284-01

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.

Jay Patel

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	<i>Your Selection or Answer</i>	<i>1a</i>	<i>1b</i>	<i>4d</i>	<i>4f</i>
1.1	-31005				+
1.1a	63773	/			
1.1b	F91D	/			
1.1c	1111 1001 0001 1101	/			
1.2	AAAA				+
1.2a	43690	+			
1.2b	-21846	+			
1.2c	1010 1010 1010 1010	+			
1.3	01AA				+
1.3a	426	+			
1.3b	426	+			
1.3c	0000 0001 1010 1010	+			
1.4	1011 0000 1111 0101				+
1.4a	45301	+			
1.4b	-20235	+			
1.4c	B0F5	+			
1.5	8AA0				+
1.5a	35488	+			
1.5b	-30048	+			
1.5c	1000 1010 1010 0000	+			
1.6	50001				+
1.6a	-15535	+			
1.6b	C351	+			
1.6c	1100 0011 0101 0001	+			
1.7	101				+
1.7a	101	+			
1.7b	65	+			
1.7c	0000 0000 0110 0101	+			

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1.8	-101				+
1.8a	32869	/			
1.8b	1065	/			
1.8c	0001 0000 0110 0101	/			
1.9	0001 1111 0000 1111				+
1.9a	7951	+			
1.9b	7951	+			
1.9c	1F0F	+			
1.10	6015				+
1.10a	24597	+			
1.10b	24597	+			
1.10c	0110 0000 0001 0101	+			
2					+
2.1	AAAA; your negative = 5556	+			
2.2	D300; your negative = 2D00	+			
2.3	9081; your negative = 6F7F	+			
2.4	4444; your negative = BBBC	+			
2.5	01AA; your negative = FE56	+			
3					+
3.1	2811 + 5A22				
3.1a	saturated: 8233				
3.1b	modular: 8233	+			
3.1c	carry: n	+			
3.1d	overflow: y	+			
3.2	7034 + E756				
3.2a	saturated: FFFF				
3.2b	modular: 678A				
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	BB10 + 8A22	
3.3a	saturated: 8000	+
3.3b	modular: 4532	+
3.3c	carry: y	+
3.3d	overflow: n	/
3.4	A124 + 9A10	
3.4a	saturated: 8000	+
3.4b	modular: 3B34	+
3.4c	carry: y	+
3.4d	overflow: y	+
3.5	A213 + 2A31	
3.5a	saturated: CC44	+
3.5b	modular: CC44	+
3.5c	carry: n	+
3.5d	overflow: n	+
3.6	5825 + 0FA0	
3.6a	saturated: 67C5	+
3.6b	modular: 67C5	+
3.6c	carry: n	+
3.6d	overflow: n	+
3.7	C044 + C044	
3.7a	saturated: 8000	
3.7b	modular: 8088	+
3.7c	carry: y	+
3.7d	overflow: n	+
4.1	Minimum capacity (gigabytes), price: 32000, \$679.00 Maximum capacity (gigabytes), price: 32000, \$679.00	
4.2a	\$0.000000000320000	
4.2b	\$0.000000000320000	
4.2c	\$0.00	+
4.3a	\$0.000000021200000000000000000000	+
4.3b	\$0.000000021200000000000000000000	+
4.3c	\$0.000000000000000000000000000000	

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5.1	0.1355			+	
5.1a	3E 0A C0 83	+			
5.1b	1F E1 58 10 62 4D D2 F1	+			
5.2a	2^24 + 1	+			
5.2b	2^53 + 1	+			
5.3	15 26 AE C4			+	
5.3a	1.010 0110 1010 1110 1100 0100 x 2^(-85)	+			
5.3b	3.3661 x 10^(-26)	+			
5.4	02 51 AB 54 C5 13 15 23			+	
5.4a	(1 + 0.552164444839) x 2^(-1005)	+			
5.4b	4.5268 x 10^(-303)	+			
6.1	101A34			+	
6.1a	F4 81 A8 B4		+		
6.1b	DB C3 DE 34		+		
6.1c	00 10 1A 34		+		
6.2	J(a)(y) P(a)t(e) 004A 249C 24B4 0020 0050 249C 0074 24A0			+	
6.2a	49 E2 92 9C E2 A6 B4 20 50 E2 92 9C 74 E2 92 A0		+		
6.2b	004A 249C 24B4 0020 0050 249C 0074 24A0		+		
6.2c	4A 61 7A 20 50 61 74 65				
6.3	1F30D 1F6B2 1F35C 1F912			+	
6.3a	F0 9F 8F 9D F0 9F 9A B2 F0 9F 8D 9C F0 9F 90 92				
6.3b	D83C EFDD D83D DEB2 D83C DFFC D83D DC12				
6.3c	0001F3DD 0001F6B2 0001F353 0001F412		+		
6.4			/		
Overall		+		+	+