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.

Megan Karbowski   *mkarbows / mck064@gmail.com*

	Your Selection or Answer	1a	1b	4d	4f
1.1	-31003				+
1.1a	34405		|		
1.1b	791B		|		
1.1c	0111 1001 0001 1011		|		
1.2	B123				+
1.2a	20189		|		
1.2b	-45347		|		
1.2c	1011 0001 0010 0011		|		
1.3	01AA				+
1.3a	426	+			
1.3b	-65,1110		|		
1.3c	0000 0001 1010 1010	+			
1.4	1011 0000 0001 1111				+
1.4a	20449		|		
1.4b	-45087		|		
1.4c	B01F	+			
1.5	8123				+
1.5a	32477		|		
1.5b	-33059		|		
1.5c	1000 0001 0010 0011	+			
1.6	49005				+
1.6a	16531		|		
1.6b	BF6D	+			
1.6c	1011 1111 0110 1101	+			
1.7	91				+
1.7a	-65445		|		
1.7b	005B	+			
1.7c	0000 0000 0101 1011	+			

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.

	Your Selection or Answer	1a	1b	4d	4f
1.8	-71				+
1.8a	65465	+			
1.8b	47	/			
1.8c	0000 0000 0100 0111	/			
1.9	0001 0000 0111 1111				+
1.9a	4223	+			
1.9b	-61313	|			
1.9c	107F	+			
1.10	395C				+
1.10a	14684	+			
1.10b	-50852	/			
1.10c	0011 1001 0101 1100	+			
2				+	
2.1	BD76; your negative = 428A	+			
2.2	D32A; your negative = 2CD6	+			
2.3	8199; your negative = 7E+67	+			
2.4	4BB2; your negative = B44E	+			
2.5	010C; your negative = FEF4	+			
3				+	
3.1	2832 + 5A45				
3.1a	saturated: 7FFF	+			
3.1b	modular: 8277	+			
3.1c	carry: n	+			
3.1d	overflow: y	+			
3.2	7014 + E782				
3.2a	saturated: 5796	+			
3.2b	modular: 5796	+			
3.2c	carry: y	+			
3.2d	overflow: n	+			

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.

	Your Selection or Answer	1a	1b	4d	4f
3.3	BB76 + 8A12				
3.3a	saturated: 8000			+	
3.3b	modular: 588			+	
3.3c	carry: y			+	
3.3d	overflow: y			+	
3.4	A155 + 9A33				
3.4a	saturated: 8000			+	
3.4b	modular: 3B88			+	
3.4c	carry: y			+	
3.4d	overflow: y			+	
3.5	A211 + 2A22				
3.5a	saturated: CC33			+	
3.5b	modular: CC33			+	
3.5c	carry: n			+	
3.5d	overflow: n			+	
3.6	5844 + 0F66				
3.6a	saturated: 67AA			+	
3.6b	modular: 67AA			+	
3.6c	carry: n			+	
3.6d	overflow: n			+	
3.7	C088 + C011				
3.7a	saturated: 8099			+	
3.7b	modular: 8099			+	
3.7c	carry: y			+	
3.7d	overflow: n			+	
4.1	Minimum capacity (gigabytes), price: 16, $79.99 Maximum capacity (gigabytes), price: 512, $599.99				
4.2a	$0.000004999375000			+	
4.2b	$0.000001171855469			+	
4.2c	$0.00			+	
4.3a	$0.0000002048256030000000000000000			+	
4.3b	$0.0000008738278970000000000000000			+	
4.3c	$0.0000006690022940000000000			+	

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.

	Your Selection or Answer	1a	1b	4d	4f
5.1	0.4453				+
5.1a	3F EE FE 5D	+			
5.1b	3F DC 7F CB 92 3A 29 C8	+			
5.2a	16777217	+			
5.2b	2^53 + 1 = 9007199254740993	+			
5.3	13 57 9B DF				+
5.3a	1.0111 1001 1011 1101 1111 x 2^(-89)	|			
5.3b	1.47265625 x 2^(-89)	|			
5.4	12 12 12 12 12 12 12 12				+
5.4a	1.1 0010 0001 0010 0001 0010 0001 0010 0001 0010 0001 0010 0001 0010 0001 0010 x 2^(-879)	|			
5.4b	1.564453125 x 2^(-879)	|			
6.1	10ABC1				+
6.1a	F4 8A AF B1		+		
6.1b	DB EA DF C1		+		
6.1c	00 10 AB C1		+		
6.2	(M)(E)(G)(A)n Ka				+
	000024C2 000024B4 000024BC 000024B6 0000006E 00000020 0000004B 00000061				
6.2a	E2 93 82 E2 92 DA E2 92 DC E2 92 D6 6E 20 4B 61		+		
6.2b	24C2 24BA 24BC 24B6 006E 0020 004B 0061		+		
6.2c	000024C2 000024B4 000024BC 000024B6 0000006E 00000020 0000004B 00000061		+		
6.3	1F3DF 1F3D4 1F366 1F646				|
6.3a	F0 9F 8F 9F F0 9F 9F 94 F0 9F 8D A6 F0 9F 99 86		+		
6.3b	D83C DFDF D83C DFD4 D83C DF66 D83D DE46		+		
6.3c	0001F3DF 0001F304 0001F366 0001F646		+		
6.4					+
Overall		+	+	+	+