

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.

Christopher Franco

cf7 / spe861@gmail.com

	<i>Your Selection or Answer</i>	<i>1a</i>	<i>1b</i>	<i>4d</i>	<i>4f</i>
1.1	-31255			+	
1.1a	34281	+			
1.1b	85F9				
1.1c	1000 0101 1110 1001	+			
1.2	ABCD			+	
1.2a	43931				
1.2b	-21555	+			
1.2c	1010 1011 1100 1101	+			
1.3	01FE			+	
1.3a	510	+			
1.3b	510	+			
1.3c	0000 0001 1111 1110	+			
1.4	1011 1100 0011 1001			+	
1.4a	48185	+			
1.4b	-17351	+			
1.4c	BC39	+			
1.5	97A0			+	
1.5a	38816	+			
1.5b	-26720	+			
1.5c	1001 0111 1010 0000	+			
1.6	53477			+	
1.6a	-12059	+			
1.6b	D0E6				
1.6c	1101 0000 1110 0101	+			
1.7	107			+	
1.7a	107	+			
1.7b	006B	+			
1.7c	0000 0000 0110 1011	+			

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.

	<i>Your Selection or Answer</i>	<i>1a</i>	<i>1b</i>	<i>4d</i>	<i>4f</i>
1.8	-191				+
1.8a	65345	+			
1.8b	FF41	+			
1.8c	1111 1111 0100 0001	+			
1.9	0001 1000 0111 1111				+
1.9a	6271	+			
1.9b	6271	+			
1.9c	187F	+			
1.10	4A17				+
1.10a	18967	+			
1.10b	18967	+			
1.10c	0100 1010 0001 0111	+			
2					+
2.1	A2E5; your negative = 5E1B				
2.2	E873; your negative = 178D	+			
2.3	89C3; your negative = 7630				
2.4	4BB2; your negative = B44E	+			
2.5	203; your negative = FDF0				
3					/
3.1	28DE + 5A49				
3.1a	saturated: 7FFF	+			
3.1b	modular: 8327	+			
3.1c	carry: n	+			
3.1d	overflow: y	+			
3.2	70CC + E723				
3.2a	saturated: 67EF				
3.2b	modular: 67EF				
3.2c	carry: y	+			
3.2d	overflow: y				

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.

	<i>Your Selection or Answer</i>	<i>1a 1b 4d 4f</i>
3.3	BB00 + 8A00	
3.3a	saturated: 8000	+
3.3b	modular: 6500	
3.3c	carry: y	+
3.3d	overflow: y	+
3.4	A123 + 9A12	
3.4a	saturated: 8000	+
3.4b	modular: 3B35	+
3.4c	carry: y	+
3.4d	overflow: y	+
3.5	A202 + 2A02	
3.5a	saturated: CDA4	
3.5b	modular: CDA4	
3.5c	carry: n	+
3.5d	overflow: n	+
3.6	5800 + 0F00	
3.6a	saturated: 6700	+
3.6b	modular: 6700	+
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: 16, \$99.00 Maximum capacity (gigabytes), price: 128, \$299.00	
4.2a	\$0.000006187500000	+
4.2b	\$0.000002343671875	+
4.2c	\$0.00	+
4.3a	\$0.00000633600000000000000000000000	+
4.3b	\$0.00000239992000000000000000000000	+
4.3c	\$0.0000039360800000000000000000	+

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.

	<i>Your Selection or Answer</i>	<i>1a</i>	<i>1b</i>	<i>4d</i>	<i>4f</i>
5.1	0.71875			+	
5.1a	3F 38 00 00	+			
5.1b	3F E7 00 00 00 00 00 00	+			
5.2a	2^24				
5.2b	2^53				
5.3	24 AE 10 57			+	
5.3a	1.00 1010 1110 0001 0000 0101 0111 x 2^26				
5.3b	7.548815 x 10^(-17)	+			
5.4	A0 12 E2 E5 76 98 CC 34				
5.4a	1.010 0000 0001 0010 1110 0010 1110 0010 1110 0101 0111 0110 1001 1000 1100 1100 0011 0100 x 2^63				
5.4b	-3.521514092814916 x 10^(-154)	/			
6.1	100023			+	
6.1a	F4 80 80 A1				
6.1b	FB 80 DC 23				
6.1c	00 10 00 23				
6.2	(C)(h)ris(t)(o)p 000024B8 000024D7 00000072 00000069 00000073 000024E3 000024DE 00000070			+	
6.2a	E2 92 B8 E2 93 97 00 72 00 69 00 73 E2 93 A3 E2 93 9E 00 70				
6.2b	00 24 B8 00 24 D7 00 00 72 00 00 69 00 00 73 00 24 E3 00 24 DE 00 00 70				
6.2c	000024B8 000024D7 00000072 00000069 00000073 000024E3 000024DE 00000070		+		
6.3	1F1E8 1F1EE 1F1F7 26EA			+	
6.3a	F0 9F 87 A8 F0 9F 87 AE F0 9F 97 B7 E2 9B AA				
6.3b	D83C DDE8 D83C DDEE D83C DDF7 002BEA				
6.3c	0001F1E8 0001F1EE 0001F1F7 000026EA		+		
6.4			+		
Overall		+		+	+