

DigiPen

CS

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CS100A

Assignment #1



Encoding

Practice base conversions and unsigned binary addition. Input all answers without leading zeros.
Rules: Calculators are not allowed. Do all calculations on a sheet of paper.

Instruction

Read carefully and check all statements below you agree with or that are correct about your assignment submission.

- ☒ If something is not clear in this page I ask for help from instructor or TA during submission period.
- ☒ After submission I will get a tentative assessment based on my input, that may be changed later after re-evaluation by grader.
- ☒ My answers represent my own individual work.
- ☒ Cheating of any kind (copying someone else's work, allowing others to copy your work, collaborating, etc.) will not be tolerated and will be dealt with SEVERELY.

★

1

0



Convert decimal 319 to binary

100111111

★

2

0



Convert decimal 205 to binary

11001101

★

3

0



Convert decimal 227 to binary

11100011

★

4

0



Convert decimal 256 to binary

100000000

★

5

0



Convert decimal 471 to binary

111010111

★

6

0



Convert decimal 301 to binary

100101101

★

7

0



Convert decimal 233 to binary

11101001

★

8

0



Convert decimal 354 to binary

101100010

★

9

0



Convert decimal 456 to binary

111001000

★	10	0	<input checked="" type="checkbox"/>
Convert decimal 365 to binary			
101101101			

★	11	0	<input checked="" type="checkbox"/>
Convert binary 101001110 to decimal			
334			

★	12	0	<input checked="" type="checkbox"/>
Convert binary 11100111 to decimal			
231			

★	13	0	<input checked="" type="checkbox"/>
Convert binary 101000000 to decimal			
320			

★	14	0	<input checked="" type="checkbox"/>
Convert binary 110101011 to decimal			
427			

★	15	0	<input checked="" type="checkbox"/>
Convert binary 101001101 to decimal			
333			

★	16	0	<input checked="" type="checkbox"/>
Convert binary 100001011 to decimal			
267			

★	17	0	<input checked="" type="checkbox"/>
Convert binary 101101001 to decimal			
361			

★	18	0	<input checked="" type="checkbox"/>
Convert binary 11110110 to decimal			
246			

★	19	0	<input checked="" type="checkbox"/>
Convert binary 101111111 to decimal			
383			

★	20	0	<input checked="" type="checkbox"/>
Convert binary 100111111 to decimal			
319			

★	21	0	<input checked="" type="checkbox"/>
Convert hexadecimal A8 to decimal			
168			

★	22	0	<input checked="" type="checkbox"/>
Convert hexadecimal 120 to decimal			
288			

★	23	0	<input checked="" type="checkbox"/>
Convert hexadecimal E3 to decimal			
227			

★	24	0	<input checked="" type="checkbox"/>
Convert hexadecimal FC to decimal			
252			

★	25	0	<input checked="" type="checkbox"/>
Convert hexadecimal C5 to decimal			
197			

★	26	0	<input checked="" type="checkbox"/>
Convert hexadecimal D7 to decimal			
215			

★	27	0	<input checked="" type="checkbox"/>
Convert hexadecimal 1C1 to decimal			
449			

★	28	0	<input checked="" type="checkbox"/>
Convert hexadecimal 10B to decimal			
267			
<input type="text"/>			

★	29	0	<input checked="" type="checkbox"/>
Convert hexadecimal E0 to decimal			
224			
<input type="text"/>			

★	30	0	<input checked="" type="checkbox"/>
Convert hexadecimal EF to decimal			
239			
<input type="text"/>			

★	31	0	<input checked="" type="checkbox"/>
Convert hexadecimal 1B1 to binary			
11011001			
<input type="text"/>			

★	32	0	<input checked="" type="checkbox"/>
Convert hexadecimal 11B to binary			
100011011			
<input type="text"/>			

★	33	0	<input checked="" type="checkbox"/>
Convert hexadecimal A8 to binary			
10101000			
<input type="text"/>			

★	34	0	<input checked="" type="checkbox"/>
Convert hexadecimal 14C to binary			
101001100			
<input type="text"/>			

★	35	0	<input checked="" type="checkbox"/>
Convert hexadecimal 10E to binary			
100001110			
<input type="text"/>			

★	36	0	<input checked="" type="checkbox"/>
Convert hexadecimal 17B to binary			
101111011			
<input type="text"/>			

★	37	0	<input checked="" type="checkbox"/>
Convert hexadecimal EB to binary			
11101011			
<input type="text"/>			

★	38	0	<input checked="" type="checkbox"/>
Convert hexadecimal 11A to binary			
100011010			
<input type="text"/>			

★	39	0	<input checked="" type="checkbox"/>
Convert hexadecimal 199 to binary			
110011001			
<input type="text"/>			

★	40	0	<input checked="" type="checkbox"/>
Convert hexadecimal 116 to binary			
100010110			
<input type="text"/>			

★	41	0	<input checked="" type="checkbox"/>
Convert octal 627 to binary			
110010111			
<input type="text"/>			

★	42	0	<input checked="" type="checkbox"/>
Convert octal 657 to binary			
110101111			
<input type="text"/>			

★	43	0	<input checked="" type="checkbox"/>
Convert octal 250 to binary			
10101000			
<input type="text"/>			

★	44	0	<input checked="" type="checkbox"/>
Convert octal 747 to binary			
111100111			
<input type="text"/>			

★	45	0	<input checked="" type="checkbox"/>
Convert octal 376 to binary			
11111110			
<input type="text"/>			

★	46	0	<input checked="" type="checkbox"/>
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Convert octal 513 to binary
101001011

★	47	0	<input checked="" type="checkbox"/>
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Convert octal 663 to binary
110110011

★	48	0	<input checked="" type="checkbox"/>
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Convert octal 377 to binary
11111111

★	49	0	<input checked="" type="checkbox"/>
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Convert octal 273 to binary
10111011

★	50	0	<input checked="" type="checkbox"/>
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Convert octal 345 to binary
11100101

★	51	0	<input checked="" type="checkbox"/>
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Perform the following unsigned binary additions.
10011000+10001111
100100111

★	52	0	<input checked="" type="checkbox"/>
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Perform the following unsigned binary additions.
11000100+1110000
100110100

★	53	0	<input checked="" type="checkbox"/>
---	----	---	-------------------------------------

Perform the following unsigned binary additions.
10010100+10000110
100011010

★	54	0	<input checked="" type="checkbox"/>
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Perform the following unsigned binary additions.
10111000+10110011
101101011

★	55	0	<input checked="" type="checkbox"/>
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Perform the following unsigned binary additions.
10010000+1111100
100001100

Survey			
<ul style="list-style-type: none"> What is approximate number of hours you spent implementing this assignment? <input type="text"/>			
<ul style="list-style-type: none"> Indicate the specific portions of the assignment that gave you the most trouble <input type="text"/>			

By signing this document you fully agree that all information provided therein is complete and true in all respects.

Responder sign: