Quiz 1

13 December 2011

1. Add and verify the following **unsigned** binary numbers.

+	0	1	1	1	0	0	+	1	0	1	1	0	0
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- 2. Draw an 8×8 grid and use it to decode the following image, specified in hexadecimal using 1 bit per pixel.
 - 18 3C 7E DB FF 24 5A A5
- 3. Suppose we have an image that uses 30 colors. How many bits per pixel are required to specify the color?
- 4. Draw a binary tree that corresponds to the following encoding of six characters. The characters should appear in boxes at the leaves. Branch left on a zero, or right on a one.
 - U 00 V 010 W 011 X 10 Y 110 Z 111