

Computer Number System Problems

1) Which of the following is the smallest number? [4130_7 , 2387_9 , 1234_{11} , 462_8 , 2032_9]

2) How many binary numbers have an equal number of 1s and 0s in the range of numbers from 52 to 57, inclusive in base 10?

3) A color has a red value of 95, a green value of 230, and a blue value of 174. What is its hexadecimal color code?

4) 120212_3 converts to base 2

5) $9_{15} + 2_{15} =$

6) Express the following number in expanded form $BA_{14} =$

7) $105B3_{16}$ in base 2 (Binary) =

8) If you perform a bitwise 'NOT' the red component of $\#FE6D51$, what is the resulting decimal value?

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9) 10111110001001_2 in base 16 (Hexadecimal) =

10) 11_{10} converts to base 2 (Binary) =

11) Express the following number in expanded form $422_6 =$

12) $1C0_{14}$ converts to base 2

13) $4_{14} + 7_{14} =$

14) Which of the following is the second largest number? [$'101000100_2'$, $'1011111000_2'$, $'1242_6'$, $'120111_4'$, $'111020_3'$]