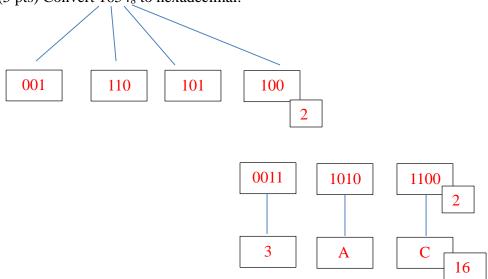
5) (10 pts) ALG (Base Conversion)

(a) (5 pts) Convert 1654₈ to hexadecimal.



3AA₁₆

Grading: 2 pts for converting from base 8 to base 2, 1 pt for regrouping from sets of three values to sets of four values, 2 pts for converting regrouped base 2 to base 16.

(b) (5 pts) Convert 1925_{10} to octal.

1925/8 = 240 with remaind 240/8 = 30 with remaind 30/8 = 3 with remaind 3/8 = 0 with remaind	er 0 er 6
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Answer: $1928_{10} = 3605_8$

Grading: 1 pt for each division by 8 with remainder, 1 pt for final solution in correct order