Workshop Week 5

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Tutorial

3. In the third rule of the attribute grammar below, subscripts have been used to distinguish between occurrences of like nonterminals.

$$E \to N \qquad\qquad [E.ones = N.ones]$$
$$N \to B \qquad\qquad [N.ones = B.ones]$$
$$N_1 \to N_2\ B \qquad\qquad [N_1.ones = N_2.ones + B.ones]$$
$$B \to \mathbf{0} \qquad\qquad [B.ones = 0]$$
$$B \to \mathbf{1} \qquad\qquad [B.ones = 1]$$

4. Note that $13_{10} = 1101_2$.