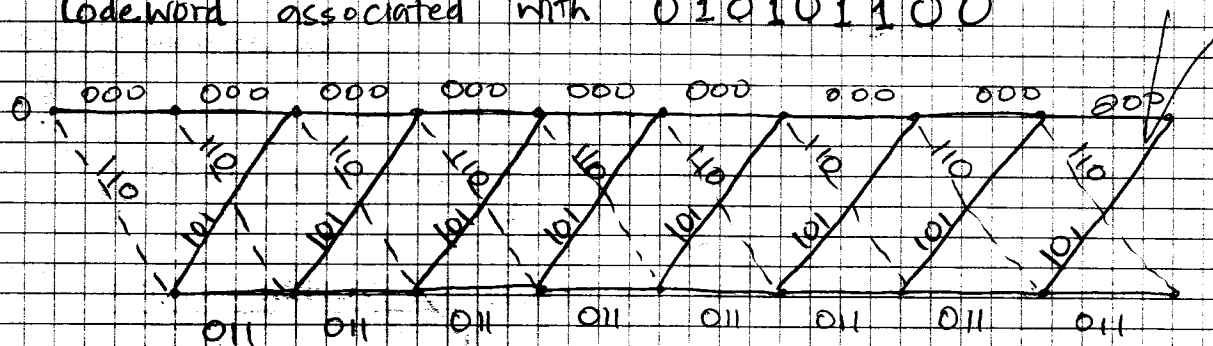


(c) Codeword associated with 010101100



000 110 101 110 101 110 011 101 000 is the codeword associated with the above sequence (010101100)

$$B_T = \frac{B_R}{2R} (1+\epsilon) \quad \epsilon=0$$

$$= \frac{1 \text{ Mbps}}{2 \times 1} \Rightarrow \frac{1 \text{ Mbps}}{2 \times R} \times 1$$

$$= \frac{1}{2 \times \frac{1}{3}} = \frac{1}{2} \times 3 = \frac{3}{2} = 1.5 \text{ MHz}$$