

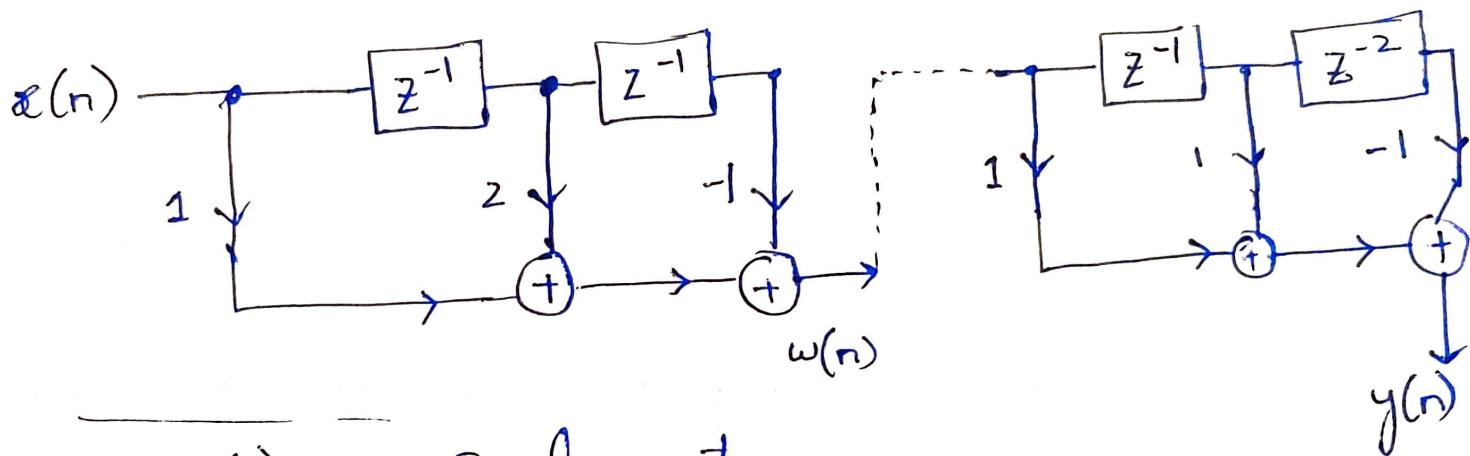
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$$H(z) = \underbrace{(1 + 2z^{-1} - z^{-2})}_{H_1(z)} \underbrace{(1 + z^{-1} - z^{-2})}_{H_2(z)}$$

now;

$$H_1(z) = 1 + 2z^{-1} - z^{-2}$$

→ also in cascade; →  $\boxed{\text{sys}_1}$  →  $\boxed{\text{sys}_2}$



∴  $y(n)$  is final output