--- 1.30. (4)

m) y [n] = x[2n]Let  $x_1 [n] = \delta [n+1]$ ;  $x_2 [n] = -\delta [n+1]$   $y_1 [n] = x_1 [2n] = \delta [n+1]$ ;  $x_2 [n] = -\delta [n+1]$   $y_1 [n] = x_2 [2n] = \delta [2n+1] = \begin{cases} 1 & \text{if } 2n+1=0 \\ 0 & \text{otherwise} \end{cases} = \begin{cases} 2 & \text{if } 2n=1=0 \\ 0 & \text{otherwise} \end{cases} = 0$   $y [n] = \begin{cases} x [n/2] = -\delta [2n+1] = \begin{cases} -1 & \text{if } 2n+1=0 \\ 0 & \text{otherwise} \end{cases} = 0 = y_1 [n] = \gamma [not invertible]$   $y [n] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2] & \text{invertible} \end{cases}$   $y [n/2] = \begin{cases} x [n/2]$ 

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