EXERCISE 5.5: Use the "synthetic multiplication" convolution algorithm to compute the output y[n] for the length-4 filter whose impulse response is $h[n] = \delta[n] - 2\delta[n-1] + 2\delta[n-2] - \delta[n-3]$. Use the input signal given in Fig. 5-2(a) on p. 150.

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