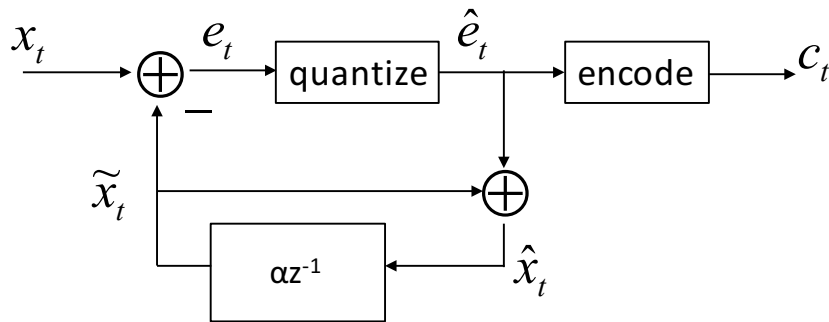Let's set $\alpha = 0.4$, and then perform predictive coding on signal sequences x_t when other coefficients are fixed, fill in the blanks in the table below.
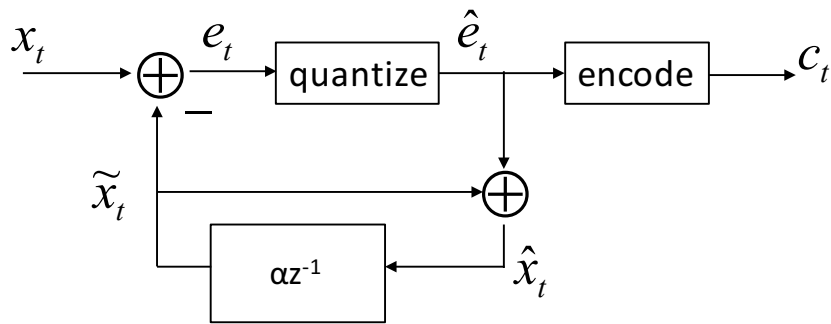Here, it is assumed that quantization step $\Delta=1$ and quantization bit B=5.

(E.g., When the input is 1.4, the output becomes 2.0.

Figure1. Process diagram of predictive coding

x_t	3.2	2.7	2.2	4.1	4.9
$\widetilde{x}_t$	0.3				
e_t	2.9				
$\hat{e}_t$	3				
$\hat{x}_t$					
c_t					

Note: A predicted value should be rounded off to one decimal places.

x_t → ⊕ → e_t → [quantize] → $\hat{e}_t$ → [encode] → c_t

$\widetilde{x}_t$ → ⊕ → $\hat{x}_t$ → [αz⁻¹]

x_t	3.2	2.7	2.2	4.1	4.9
$\widetilde{x}_t$	0.3				
e_t	2.9				
$\hat{e}_t$	3				
$\hat{x}_t$					
c_t					