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Therefore, as it has no dependence on future value, we can call it a Causal system. b) $y(t) = x(t - 1)$ Here, the system depends on past values. For instance if we substitute $t = 3$, the expression will reduce to $x(2)$, which is a past value against our input. At no instance, it depends upon future values.

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A1: Digital signal processing includes a program memory which stores all the program the processing uses to process the data. It also includes data memory which stores information within itself which needs to be processed and compute engine which performs the mathematics processing that accessed the program and data from program memory and data memory respectively.

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This analog signal is then converted to a digital signal by an analog-to-digital converter and passed to the DSP. The DSP performs the MP3 encoding and saves the file to memory. During the playback phase, the file is taken from memory, decoded by the DSP and then converted back to an analog signal through the digital-to-analog converter so it can be output through the speaker system.

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