

Warmup question from the reading: is t	the following a <i>decoder</i> or a <i>multiplexer</i> ?	Ĩ	CS 240 Foundations of Computer Systems	WELLESLEY
	Decoder Multiplexer (mux) None of the above	0%	Combinational Logic Building blocks: encoders, decoders, multiplexers	Abstraction
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Decoders

Decodes input number, asserts corresponding output.

n-bit input (an unsigned number)

2ⁿ outputs

Built with code detectors.



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Decoders and multiplexers

A decoder has an n-bit input and 2ⁿ outputs. Only 1 output active at once.



A multiplexer has 2ⁿ inputs, n selector wires, and 1 output.



