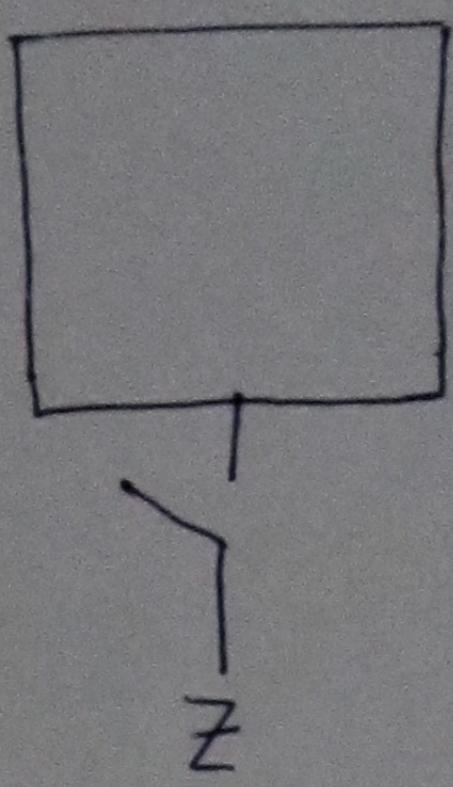
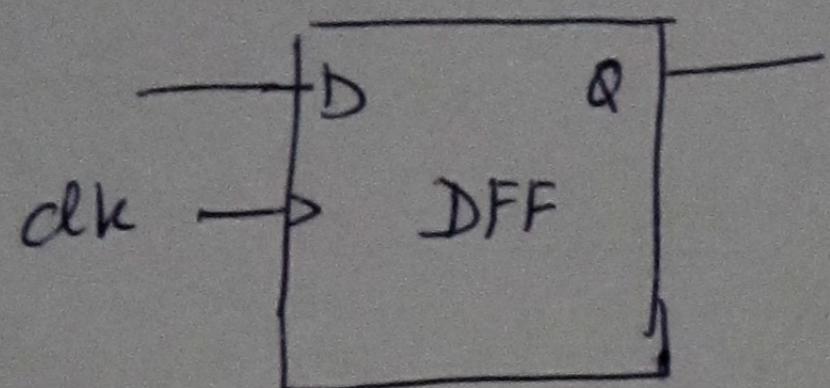


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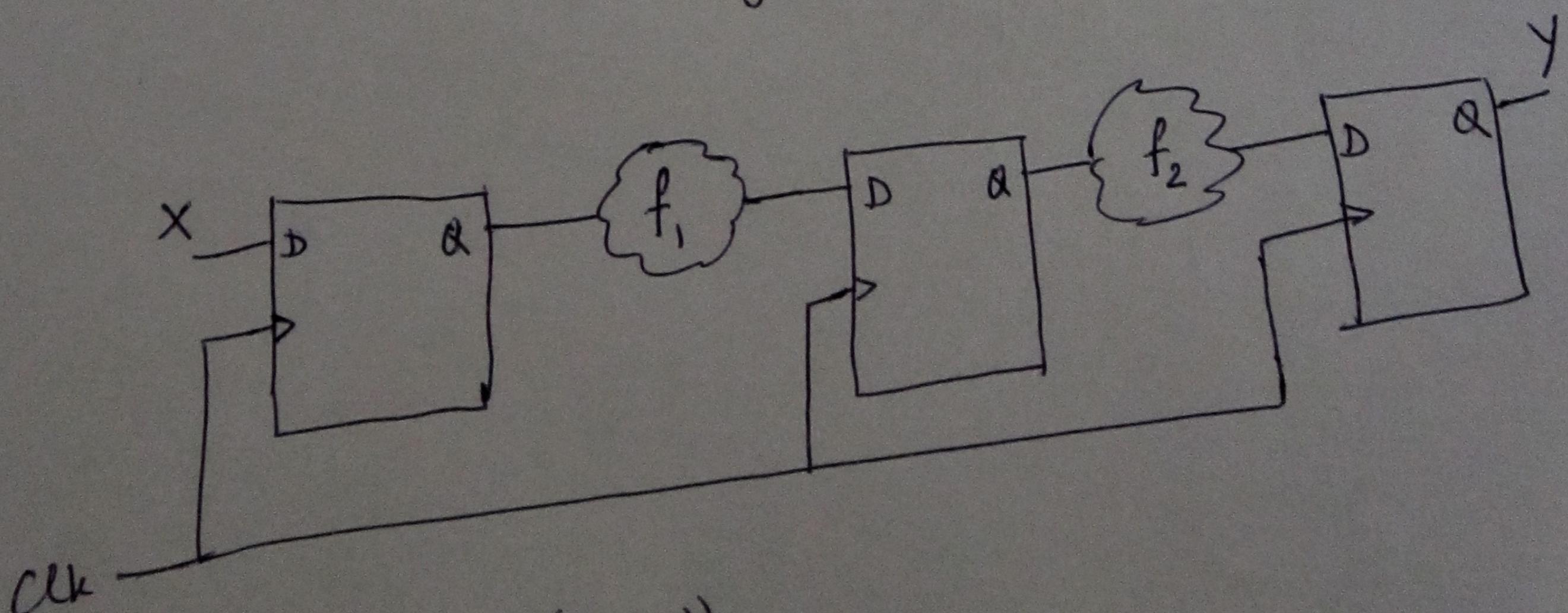
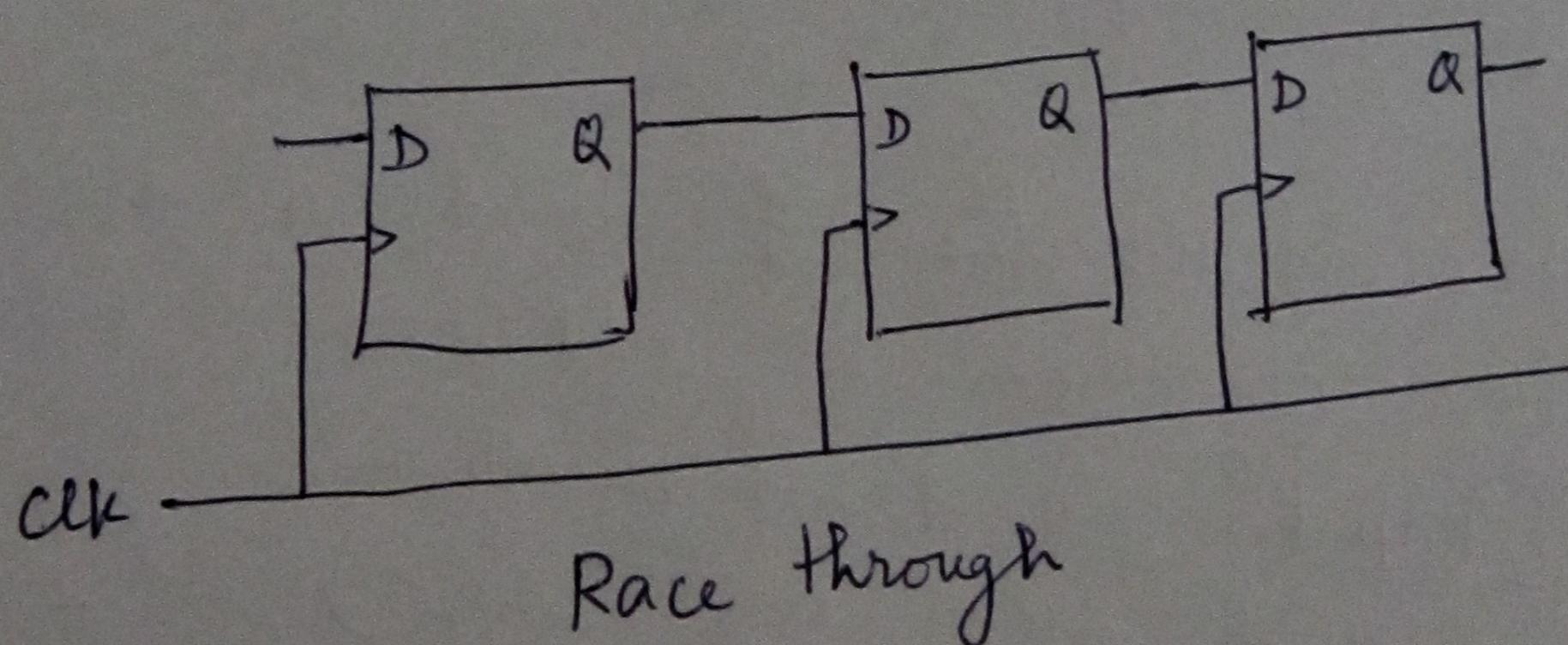
High impedance state

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propagation delay from D to Q.

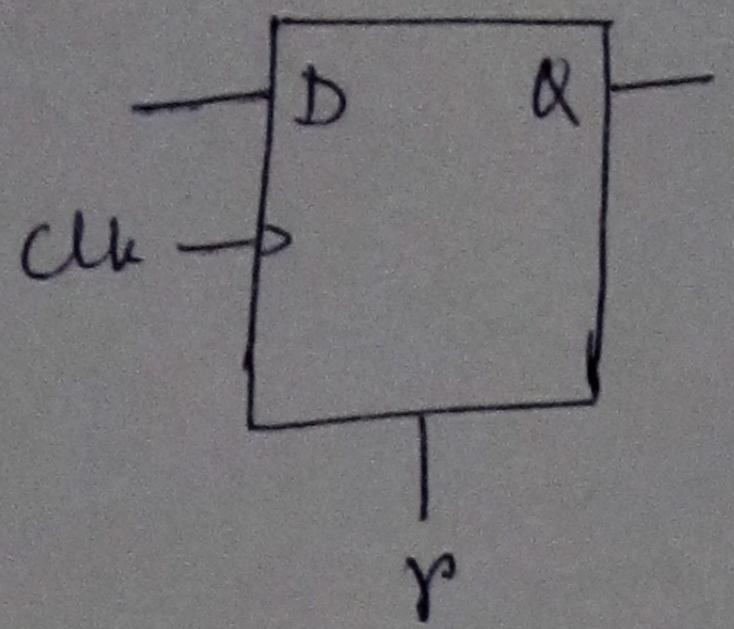
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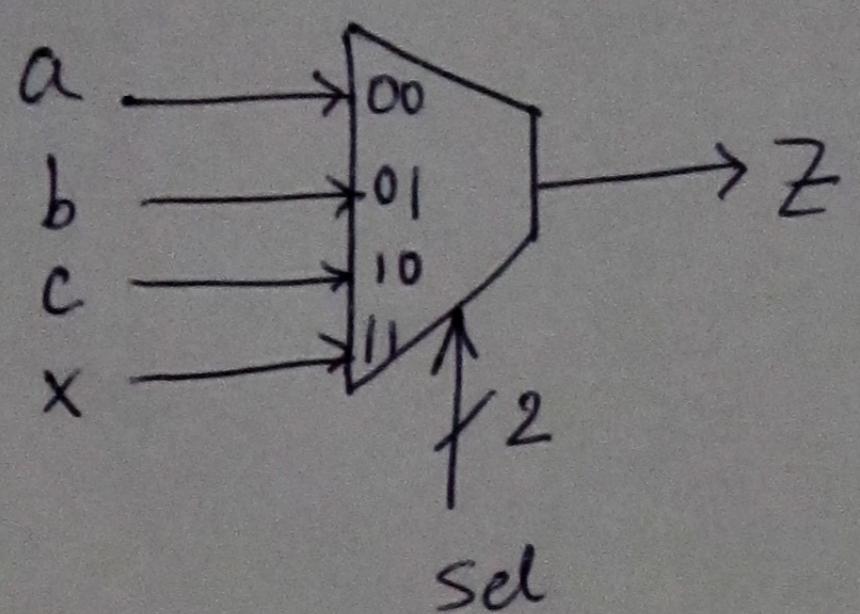
$$y = f_2(f_1(x))$$

Race through in a pipeline

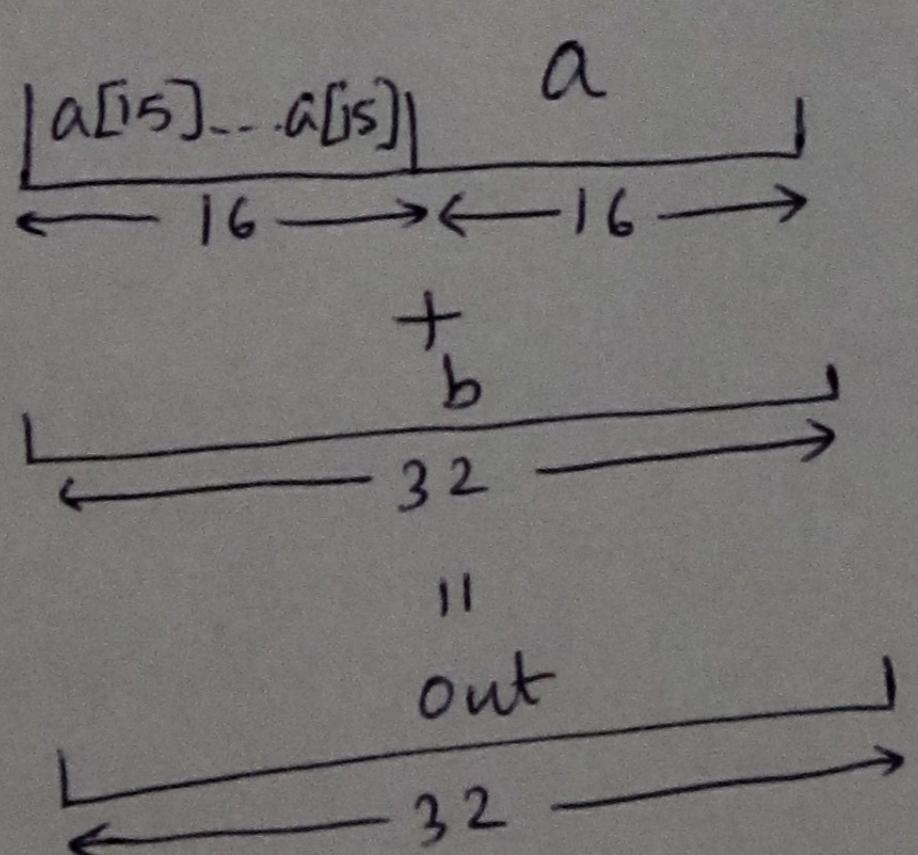
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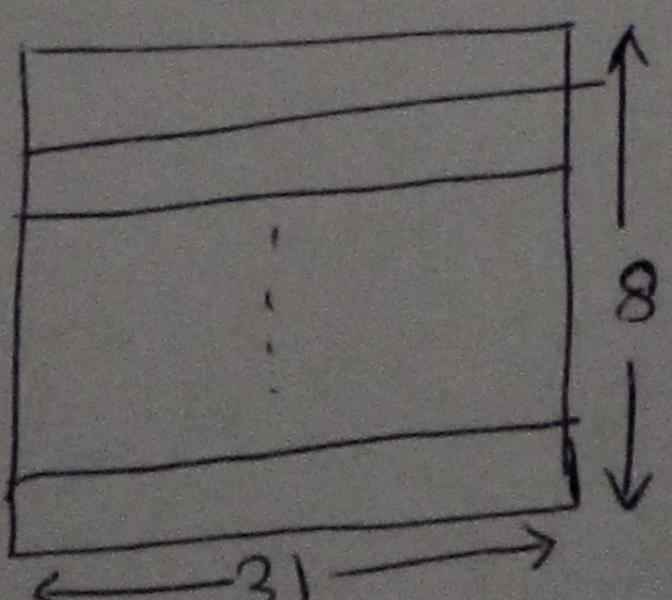
Slide-25



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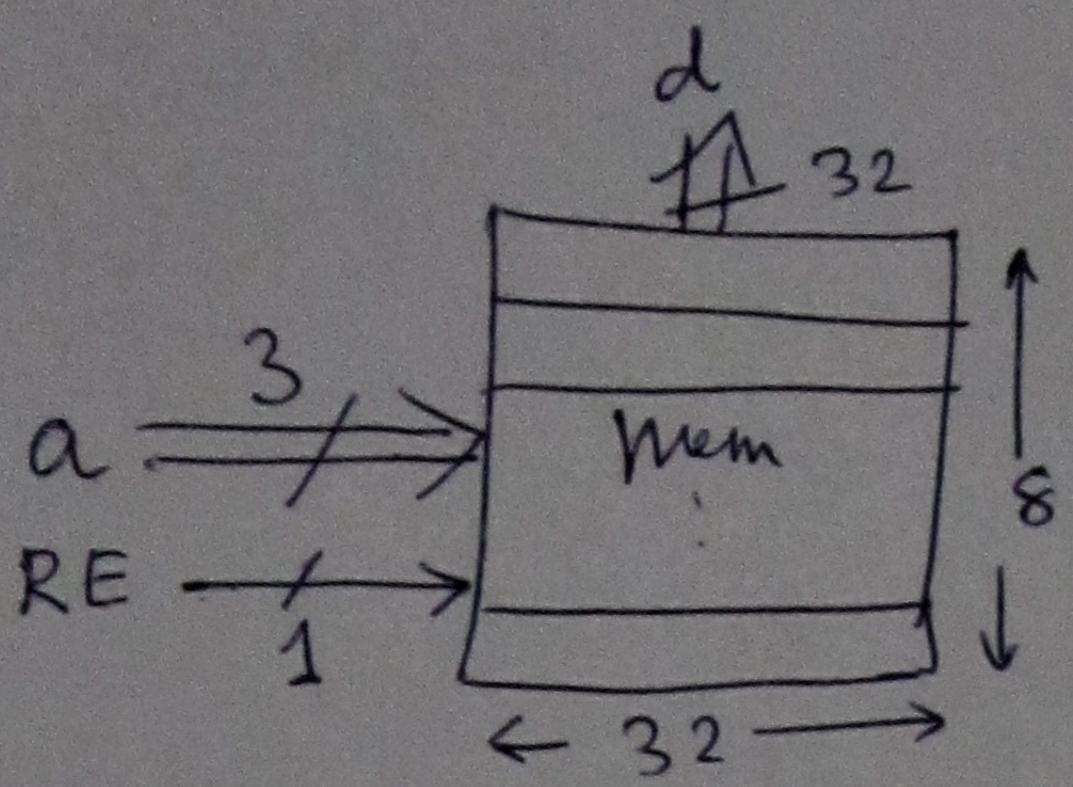


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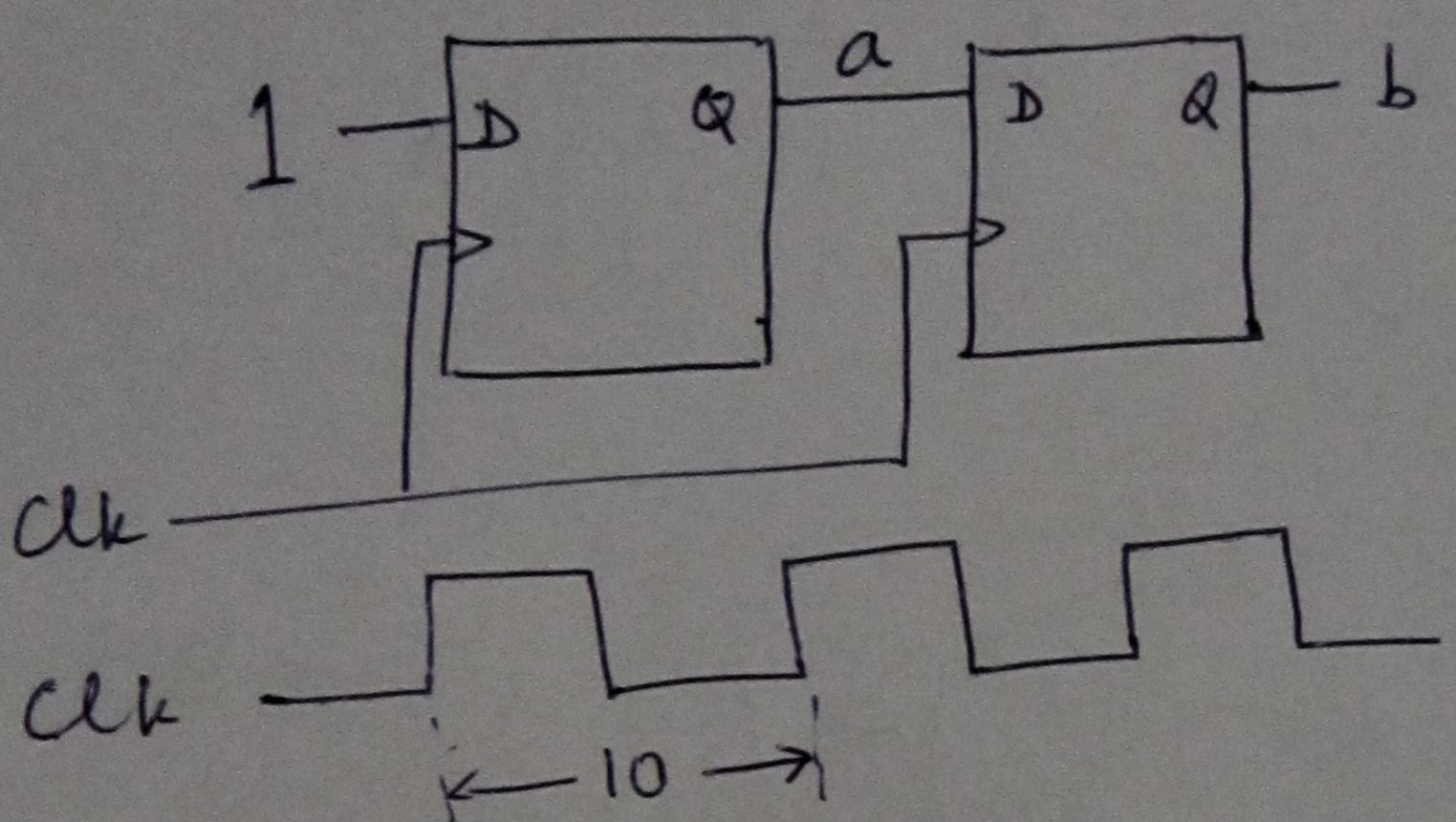


register file

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Slide-30



Slide-34

