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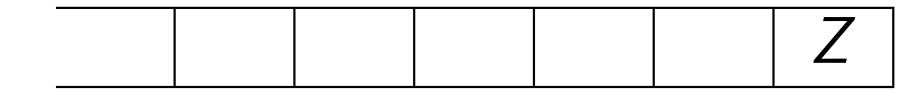
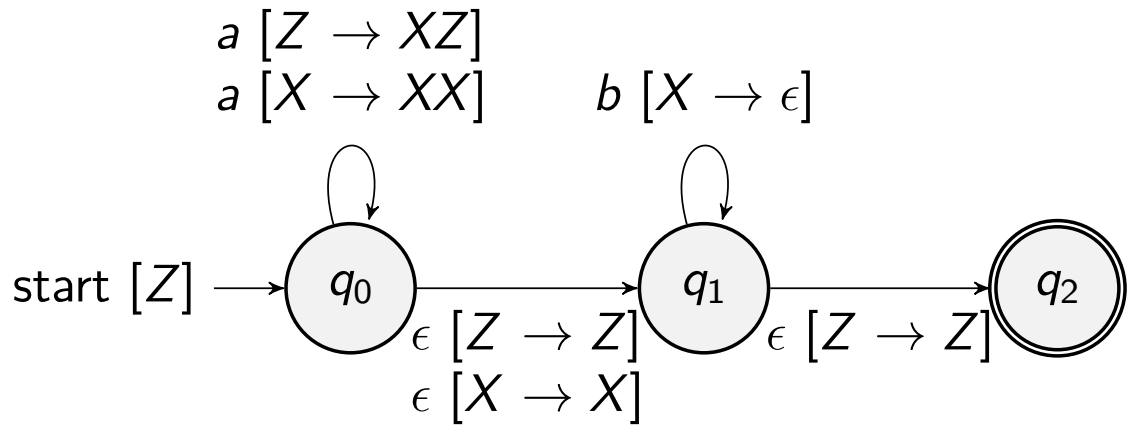
$$L_F(P) = \{\mathtt{a}^n\mathtt{b}^n \mid n \geq 0\}$$

Word $w =$ a a a b b b

Stack $\alpha =$



$P =$



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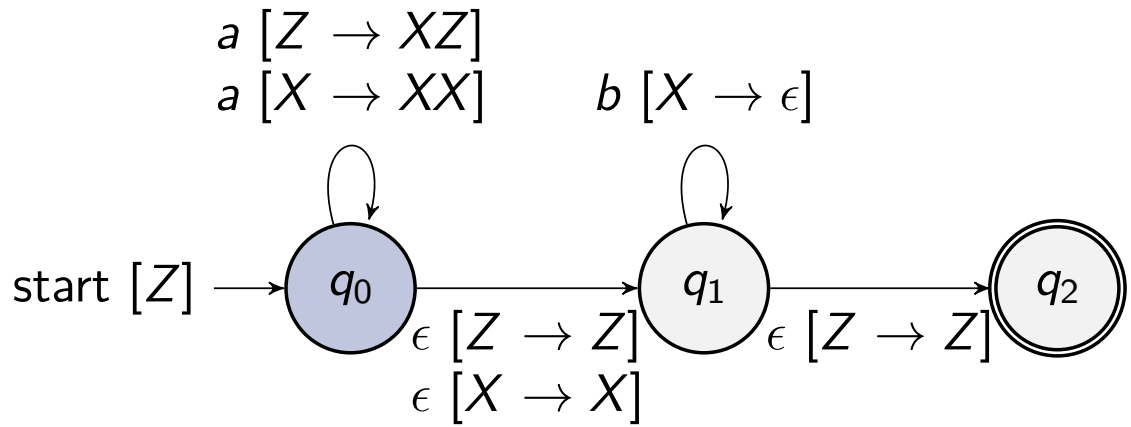

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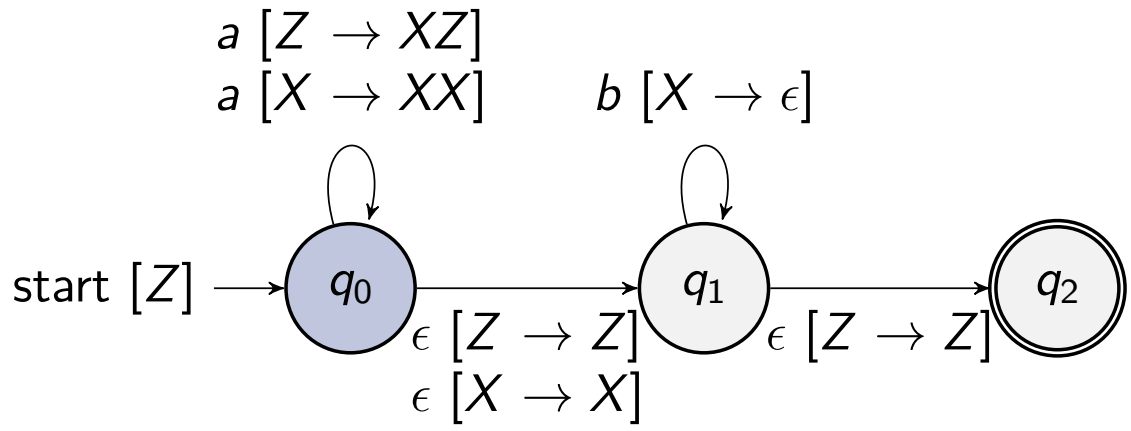

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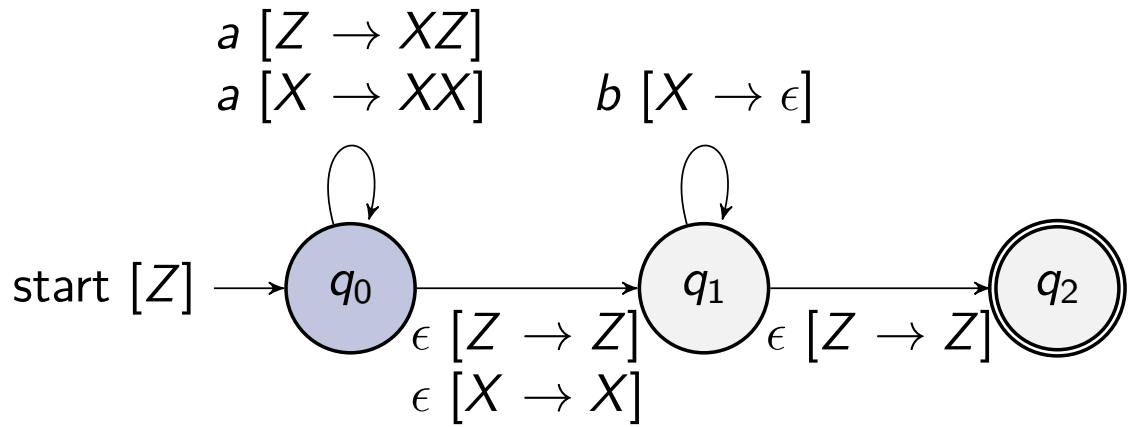

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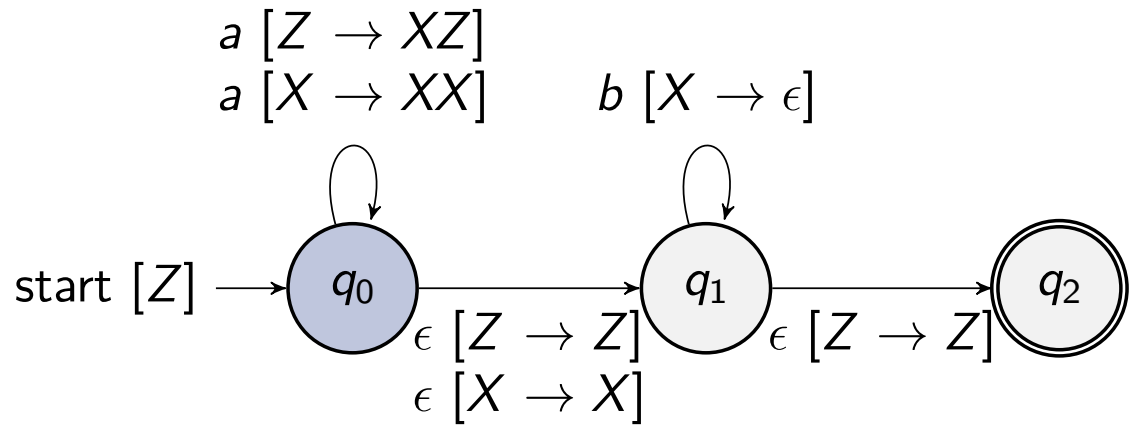

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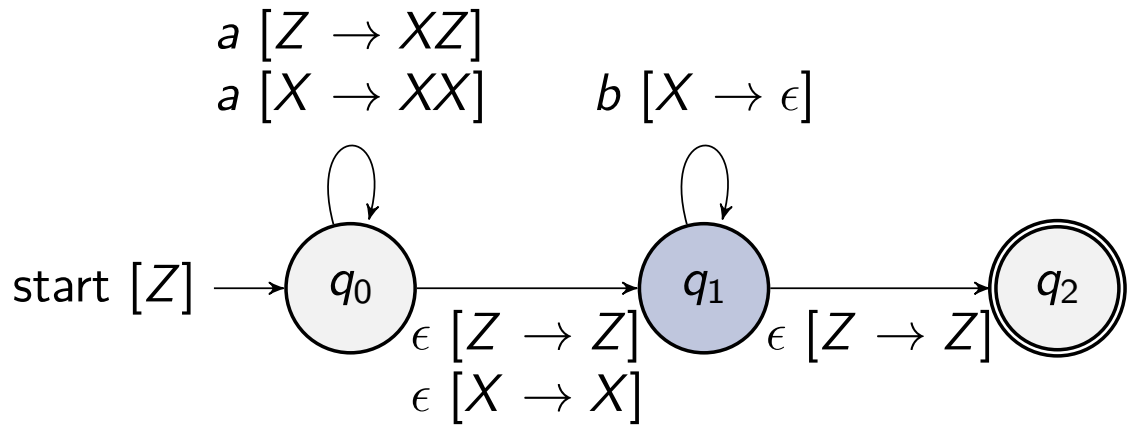

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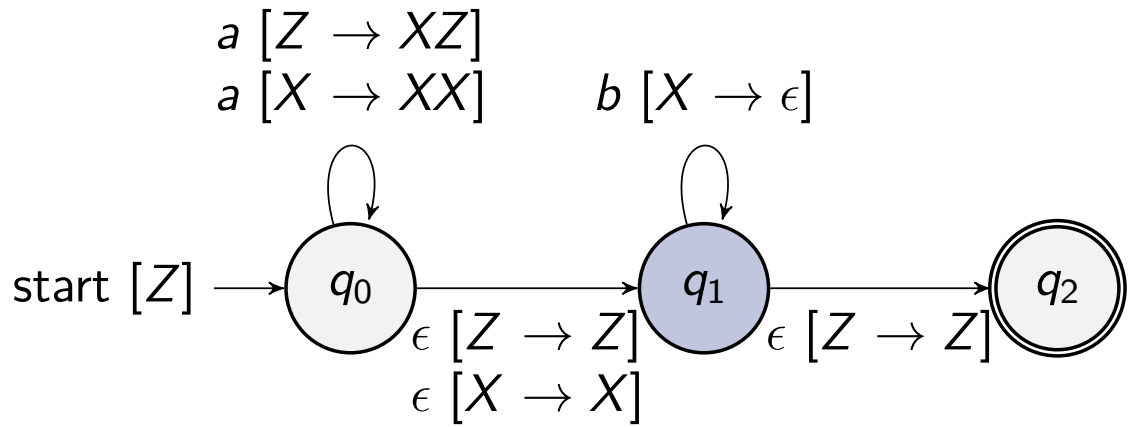

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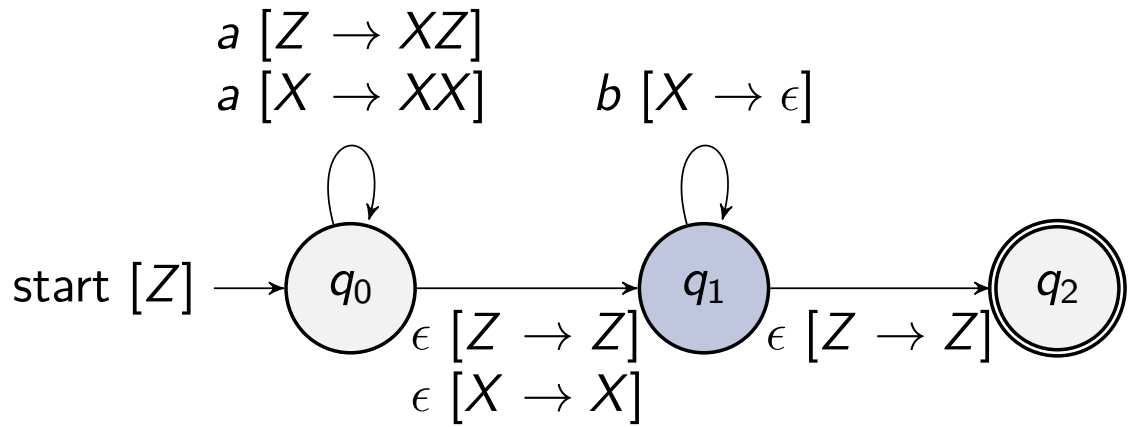

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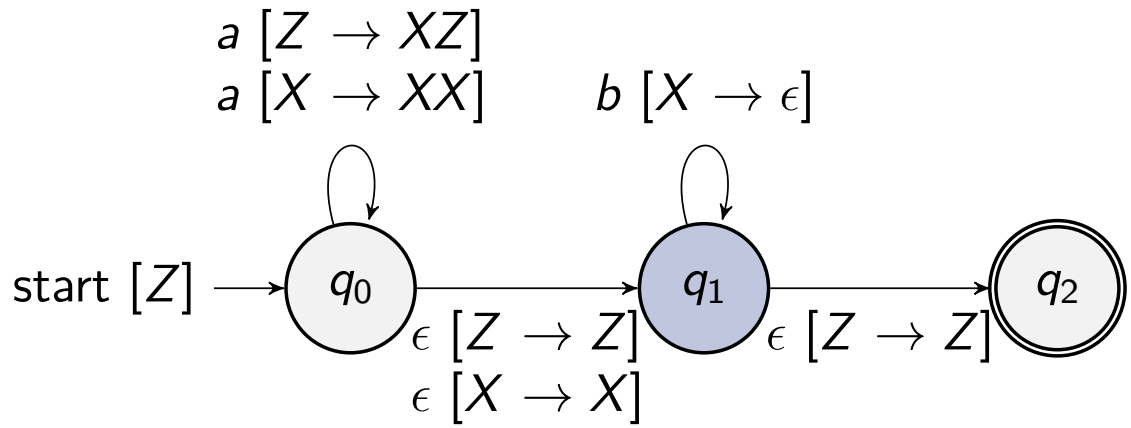
$P =$ 

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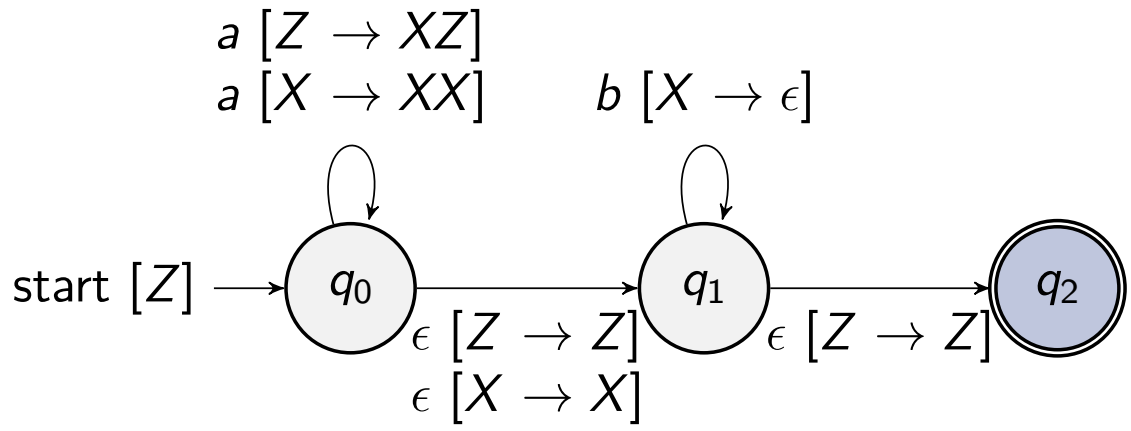
$P =$ 

aaabbb $\in L_F(P)$!