

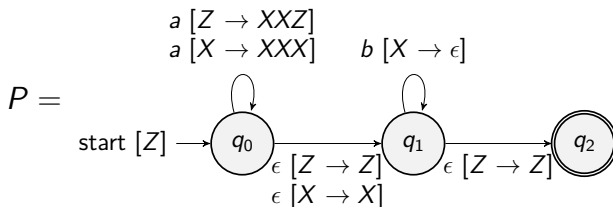
Construct a **PDA** that accepts the language by **final states**:

$$L(P) = \{a^n b^{2^n} \mid n \geq 0\}$$

Word  $w =$       a    a    b    b    b    b

Stack  $\alpha =$ 

						Z
--	--	--	--	--	--	---



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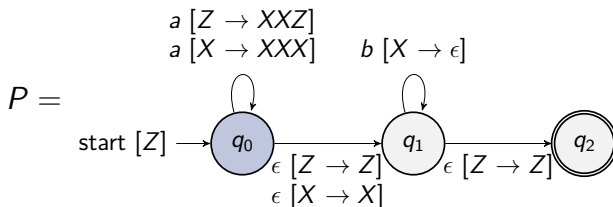
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Word  $w =$ 

a	a	b	b	b	b
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Stack  $\alpha =$ 

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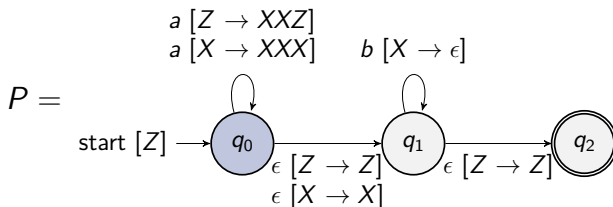
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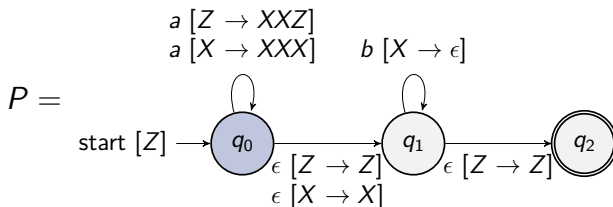
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		<b>X</b>	X	X	X	Z
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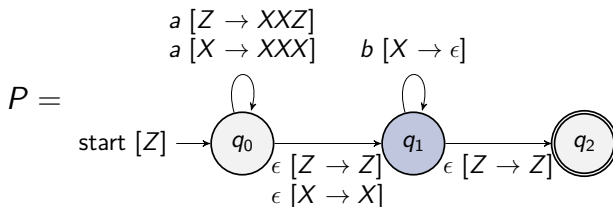
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		<b>X</b>	X	X	X	Z
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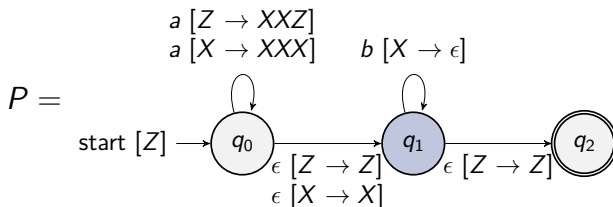
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			<b>X</b>	X	X	Z
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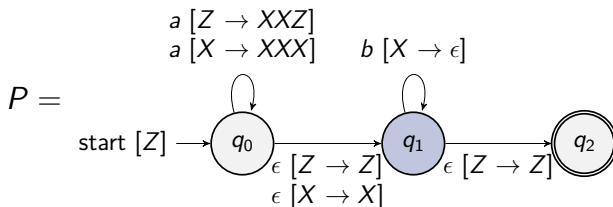
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				<b>X</b>	X	Z
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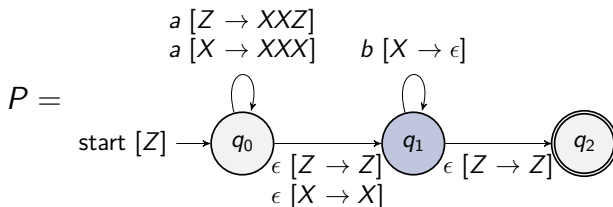
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Stack  $\alpha =$ 

					X	Z
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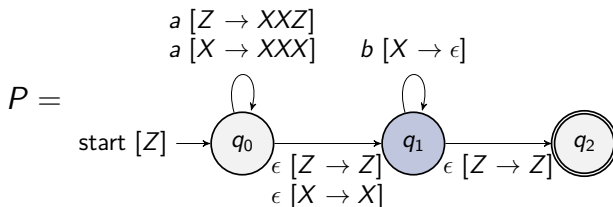
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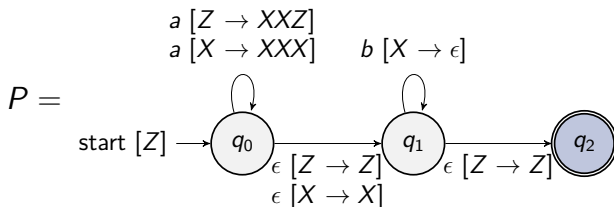
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$aabbbb \in L_F(P)!$