

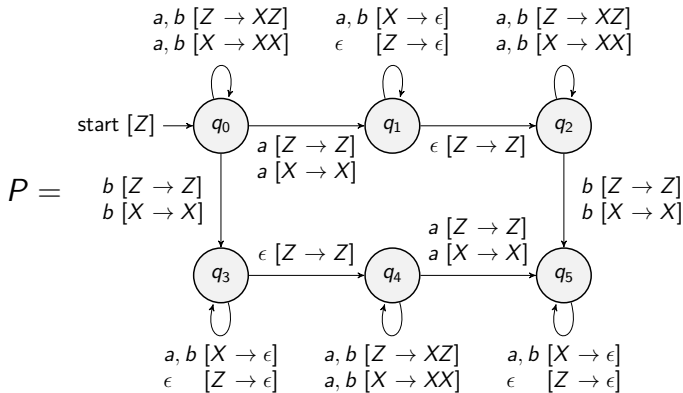
Construct a **PDA** that accepts the language by **empty stacks**:

$$L_E(P) = \{x \in \{a, b\}^* \mid x \text{ is not of the form } ww\}$$

Word $w =$ a b a a b a a a a b

Stack $\alpha =$

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



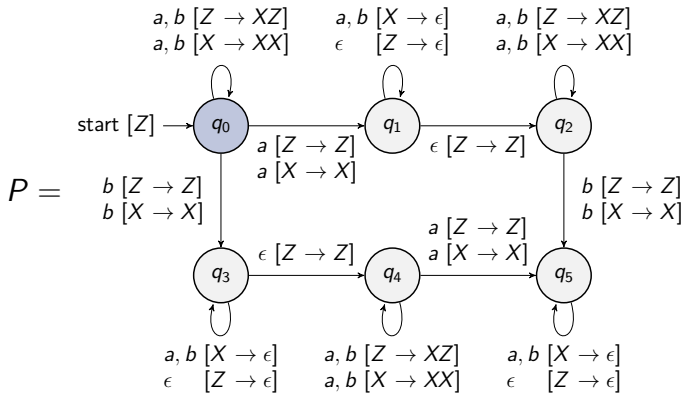
Construct a **PDA** that accepts the language by **empty stacks**:

$$L_E(P) = \{x \in \{a, b\}^* \mid x \text{ is not of the form } ww\}$$

Word $w =$ a b a a b a a a a b

Stack $\alpha =$

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



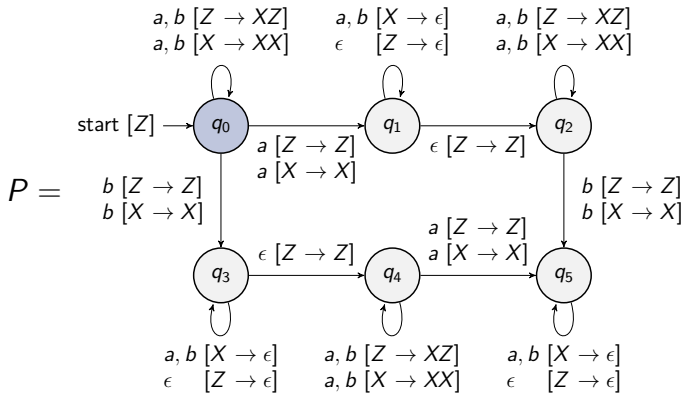
Construct a **PDA** that accepts the language by **empty stacks**:

$$L_E(P) = \{x \in \{a, b\}^* \mid x \text{ is not of the form } ww\}$$

Word $w =$ a **b** a a b a a a a b

Stack $\alpha =$

					X	Z
--	--	--	--	--	---	---



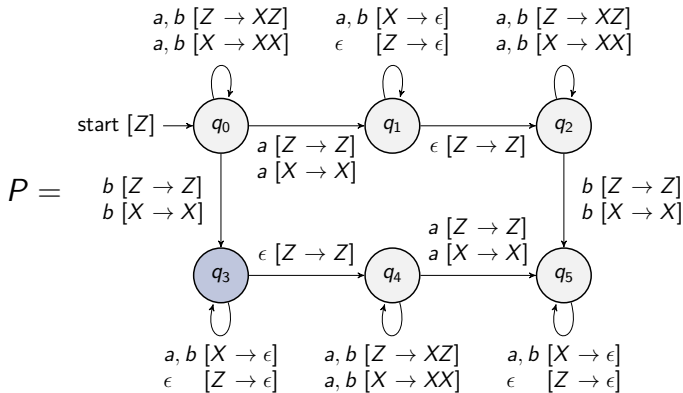
Construct a **PDA** that accepts the language by **empty stacks**:

$$L_E(P) = \{x \in \{a, b\}^* \mid x \text{ is not of the form } ww\}$$

Word $w =$ a b a a b a a a a b

Stack $\alpha =$

					X	Z
--	--	--	--	--	---	---



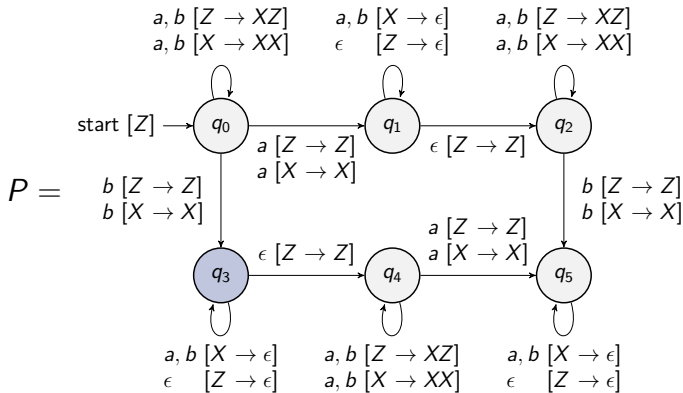
Construct a **PDA** that accepts the language by **empty stacks**:

$$L_E(P) = \{x \in \{a, b\}^* \mid x \text{ is not of the form } ww\}$$

Word $w =$ a b a a b a a a a b

Stack $\alpha =$

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



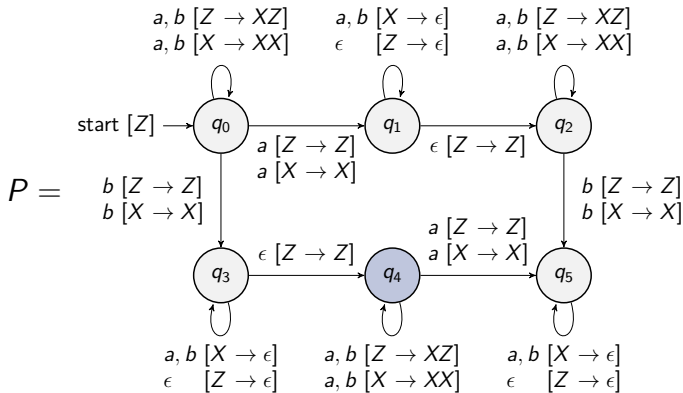
Construct a **PDA** that accepts the language by **empty stacks**:

$$L_E(P) = \{x \in \{a, b\}^* \mid x \text{ is not of the form } ww\}$$

Word $w =$ a b a a b a a a a b

Stack $\alpha =$

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



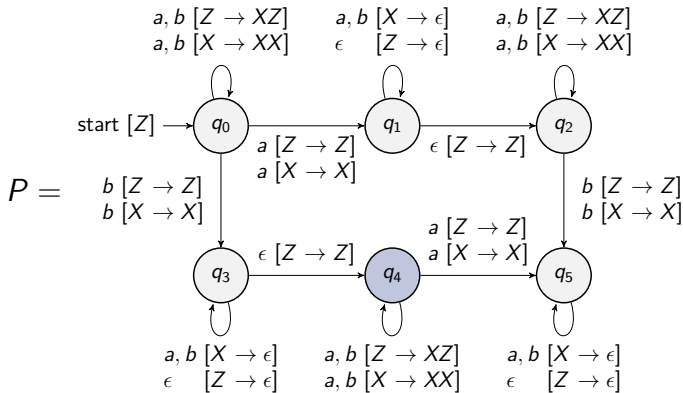
Construct a **PDA** that accepts the language by **empty stacks**:

$$L_E(P) = \{x \in \{a, b\}^* \mid x \text{ is not of the form } ww\}$$

Word $w =$ a b a a **b** a a a a b

Stack $\alpha =$

					X	Z
--	--	--	--	--	---	---



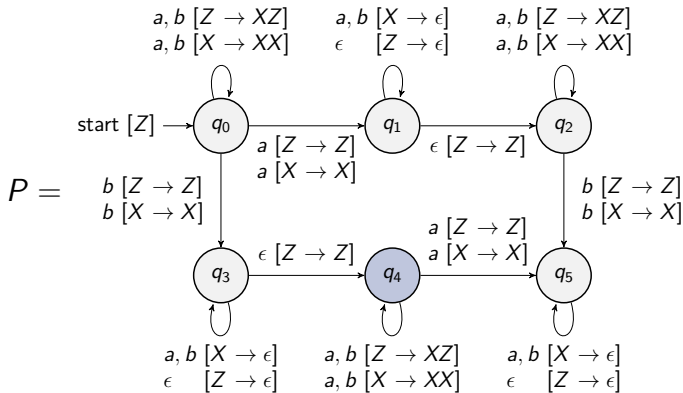
Construct a **PDA** that accepts the language by **empty stacks**:

$$L_E(P) = \{x \in \{a, b\}^* \mid x \text{ is not of the form } ww\}$$

Word $w =$ a b a a b a a a a b

Stack $\alpha =$

				X	X	Z
--	--	--	--	---	---	---



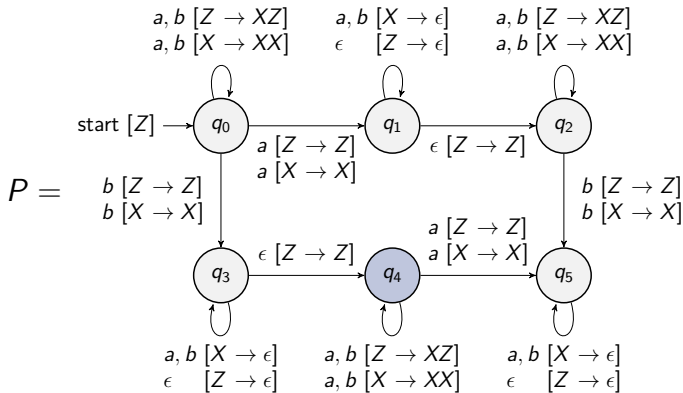
Construct a **PDA** that accepts the language by **empty stacks**:

$$L_E(P) = \{x \in \{a, b\}^* \mid x \text{ is not of the form } ww\}$$

Word $w =$ a b a a b a **a** a a b

Stack $\alpha =$

			X	X	X	Z
--	--	--	---	---	---	---



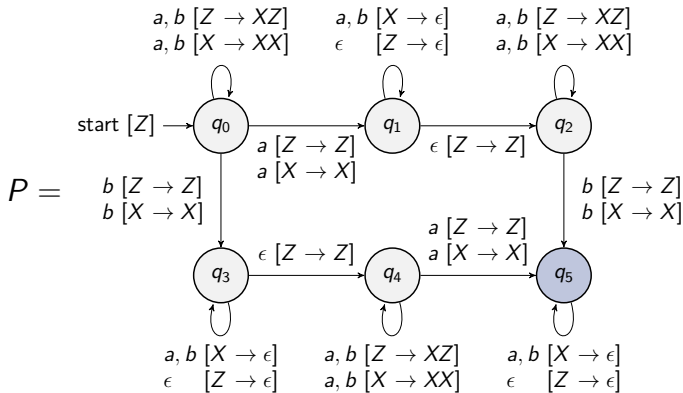
Construct a **PDA** that accepts the language by **empty stacks**:

$$L_E(P) = \{x \in \{a, b\}^* \mid x \text{ is not of the form } ww\}$$

Word $w =$ a b a a b a a **a** a b

Stack $\alpha =$

			X	X	X	Z
--	--	--	---	---	---	---



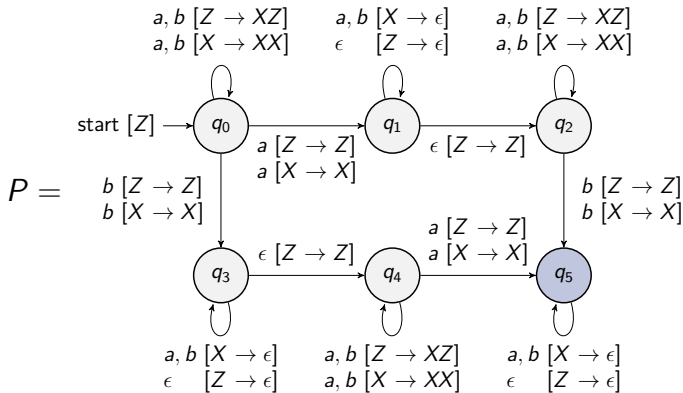
Construct a **PDA** that accepts the language by **empty stacks**:

$$L_E(P) = \{x \in \{a, b\}^* \mid x \text{ is not of the form } ww\}$$

Word $w =$ a b a a b a a a a b

Stack $\alpha =$

				X	X	Z
--	--	--	--	---	---	---



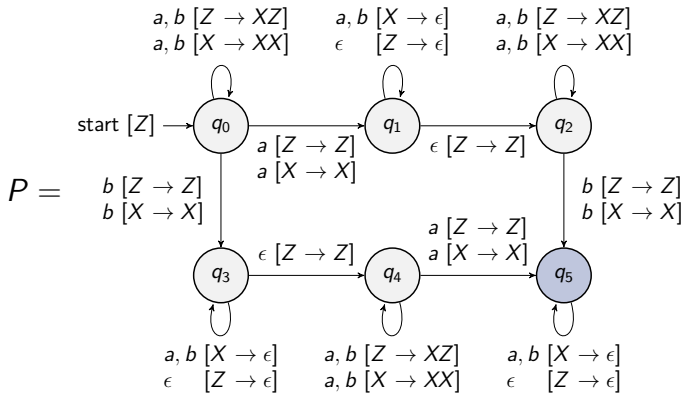
Construct a **PDA** that accepts the language by **empty stacks**:

$$L_E(P) = \{x \in \{a, b\}^* \mid x \text{ is not of the form } ww\}$$

Word $w =$ a b a a b a a a a **b**

Stack $\alpha =$

					X	Z
--	--	--	--	--	---	---



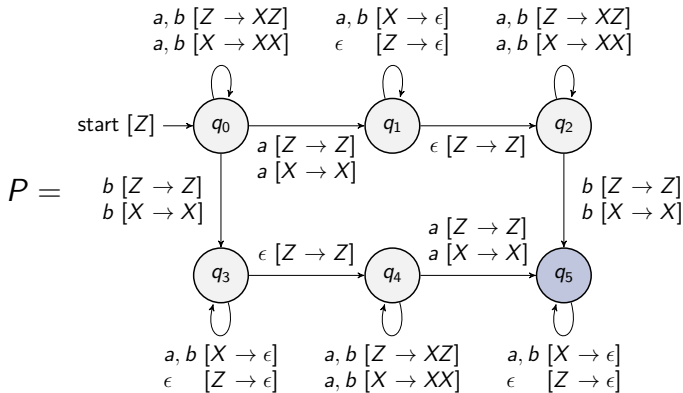
Construct a **PDA** that accepts the language by **empty stacks**:

$$L_E(P) = \{x \in \{a, b\}^* \mid x \text{ is not of the form } ww\}$$

Word $w =$ a b a a b a a a a b

Stack $\alpha =$

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



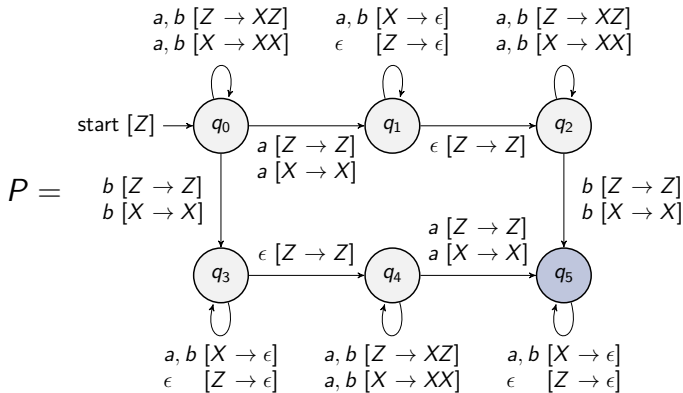
Construct a **PDA** that accepts the language by **empty stacks**:

$$L_E(P) = \{x \in \{a, b\}^* \mid x \text{ is not of the form } ww\}$$

Word $w =$ a b a a b a a a a b

Stack $\alpha =$

--	--	--	--	--	--	--



$abaabaaaab \in L_E(P)$