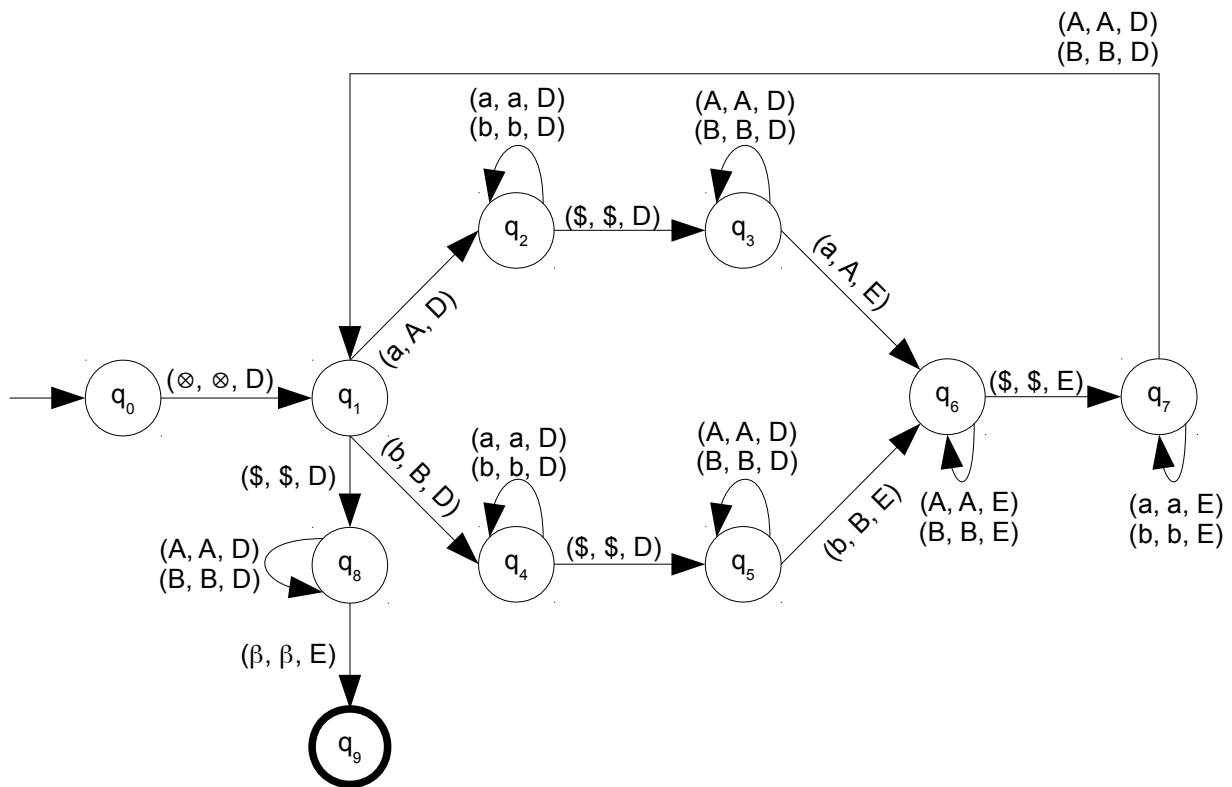


03. Desenvolver uma máquina de Turing, que verifique se duas palavras sobre o alfabeto {a, b, \$} são idênticas. O símbolo \$ é utilizado como separador das duas palavras. A seguir, são apresentados alguns exemplos de entradas possíveis de serem fornecidas pelo usuário com seus respectivos resultados.

Entrada – Fita	Saída – Fita	Status
abb\$abb	indiferente	aceita
abb\$bba	indiferente	rejeita
aa\$bb	indiferente	rejeita
\$	indiferente	aceita
$\beta$	indiferente	rejeita

$$M = (\{a, b, \$\}, \{q_0, q_1, q_2, q_3, q_4, q_5, q_6, q_7, q_8, q_9\}, \Pi, q_0, \{q_9\}, \{A, B\}, \beta, \otimes)$$



$\Pi$	a	b	\$	A	B	$\beta$	$\otimes$
$q_0$	-	-	-	-	-	-	$(q_1, \otimes, D)$
$q_1$	$(q_2, A, D)$	$(q_4, B, D)$	$(q_8, \$, D)$	-	-	-	-
$q_2$	$(q_2, a, D)$	$(q_2, b, D)$	$(q_3, \$, D)$	-	-	-	-
$q_3$	$(q_6, A, E)$	-	-	$(q_3, A, D)$	$(q_3, B, D)$	-	-
$q_4$	$(q_4, a, D)$	$(q_4, b, D)$	$(q_5, \$, D)$	-	-	-	-
$q_5$	-	$(q_6, B, E)$	-	$(q_5, A, D)$	$(q_5, B, D)$	-	-
$q_6$	-	-	$(q_7, \$, E)$	$(q_6, A, E)$	$(q_6, B, E)$	-	-
$q_7$	$(q_7, a, E)$	$(q_7, b, E)$	-	$(q_1, A, D)$	$(q_1, B, D)$	-	-
$q_8$	-	-	-	$(q_8, A, D)$	$(q_8, B, D)$	$(q_9, \beta, E)$	-
$q_9$	-	-	-	-	-	-	-

⊗	a	b	b	\$	a	b	b	β
---	---	---	---	----	---	---	---	---

↑

q <sub>0</sub>
----------------

⊗	a	b	b	\$	a	b	b	β
---	---	---	---	----	---	---	---	---

↑

q <sub>1</sub>
----------------

⊗	A	b	b	\$	a	b	b	β
---	---	---	---	----	---	---	---	---

↑

q <sub>2</sub>
----------------

⊗	A	b	b	\$	a	b	b	β
---	---	---	---	----	---	---	---	---

↑

q <sub>2</sub>
----------------

⊗	A	b	b	\$	a	b	b	β
---	---	---	---	----	---	---	---	---

↑

q <sub>2</sub>
----------------

⊗	A	b	b	\$	a	b	b	β
---	---	---	---	----	---	---	---	---

↑

q <sub>3</sub>
----------------

⊗	A	b	b	\$	A	b	b	β
---	---	---	---	----	---	---	---	---

↑

q <sub>6</sub>
----------------

⊗	A	b	b	\$	A	b	b	β
---	---	---	---	----	---	---	---	---

↑

q <sub>7</sub>
----------------

⊗	A	b	b	\$	A	b	b	β
---	---	---	---	----	---	---	---	---

↑

q <sub>7</sub>
----------------

⊗	A	b	b	\$	A	b	b	β
---	---	---	---	----	---	---	---	---

↑

q <sub>7</sub>
----------------

⊗	A	b	b	\$	A	b	b	β
---	---	---	---	----	---	---	---	---

↑

