

Part A - Transitions

RE = (vowel | vowel n | consonant vowel | consonant vowel n | consonant-pair vowel | consonant-pair vowel n)^+

**q0 Transitions**

Trs(q0, V)	= q0q1	<b>new</b>
Trs(q0, dwzyj)	= qsa	loop
Trs(q0, bghkmnpr)	= qy	loop
Trs(q0, t)	= qt	loop
Trs(q0, s)	= qs	loop
Trs(q0, c)	= qc	loop
Trs(q0, h)	= —	
Trs(q0, n)	= qy	loop
Trs(q0, y)	= —	

**q0q1 Transitions**

Trs(q0q1, V)	= q0q1	loop
Trs(q0q1, dwzyj)	= qsa	loop
Trs(q0q1, bghkmpr)	= qy	loop
Trs(q0q1, t)	= qt	loop
Trs(q0q1, s)	= qs	loop
Trs(q0q1, c)	= qc	loop
Trs(q0q1, h)	= —	
Trs(q0q1, n)	= q0qy	<b>new</b>
Trs(q0, y)	= —	

**q0qy Transitions**

Trs(q0qy, V)	= q0q1	loop
Trs(q0qy, dwzyj)	= qsa	loop
Trs(q0qy, bghkmnpr)	= qy	loop
Trs(q0qy, t)	= qt	loop
Trs(q0qy, s)	= qs	loop
Trs(q0qy, c)	= qc	loop
Trs(q0qy, h)	= —	
Trs(q0qy, n)	= qy	loop
Trs(q0qy, y)	= qsa	loop

**q1 Transitions**

Trs(q1, V)	= —
Trs(q1, dwzyj)	= —
Trs(q1, bghkmnpr)	= —
Trs(q1, t)	= —
Trs(q1, s)	= —
Trs(q1, c)	= —

Trs(q1, h)	= —	
Trs(q1, n)	= q0	loop
Trs(q1, y)	= —	

#### **qsa Transitions**

Trs(qsa, V)	= q0q1	loop
Trs(qsa, dwzyj)	= —	
Trs(qsa, bghkmnpr)	= —	
Trs(qsa, t)	= —	
Trs(qsa, s)	= —	
Trs(qsa, c)	= —	
Trs(qsa, h)	= —	
Trs(qsa, n)	= —	
Trs(qsa, y)	= —	

#### **qy Transitions**

Trs(qy, V)	= q0q1	loop
Trs(qy, dwzyj)	= —	
Trs(qy, bghkmnpr)	= —	
Trs(qy, t)	= —	
Trs(qy, s)	= —	
Trs(qy, c)	= —	
Trs(qy, h)	= —	
Trs(qy, n)	= —	
Trs(qy, y)	= qsa	loop

#### **qt Transitions**

Trs(qt, V)	= q0q1	loop
Trs(qt, dwzyj)	= —	
Trs(qt, bghkmnpr)	= —	
Trs(qt, t)	= —	
Trs(qt, s)	= qsa	loop
Trs(qt, c)	= —	
Trs(qt, h)	= —	
Trs(qt, n)	= —	
Trs(qt, y)	= —	

**qs Transitions**

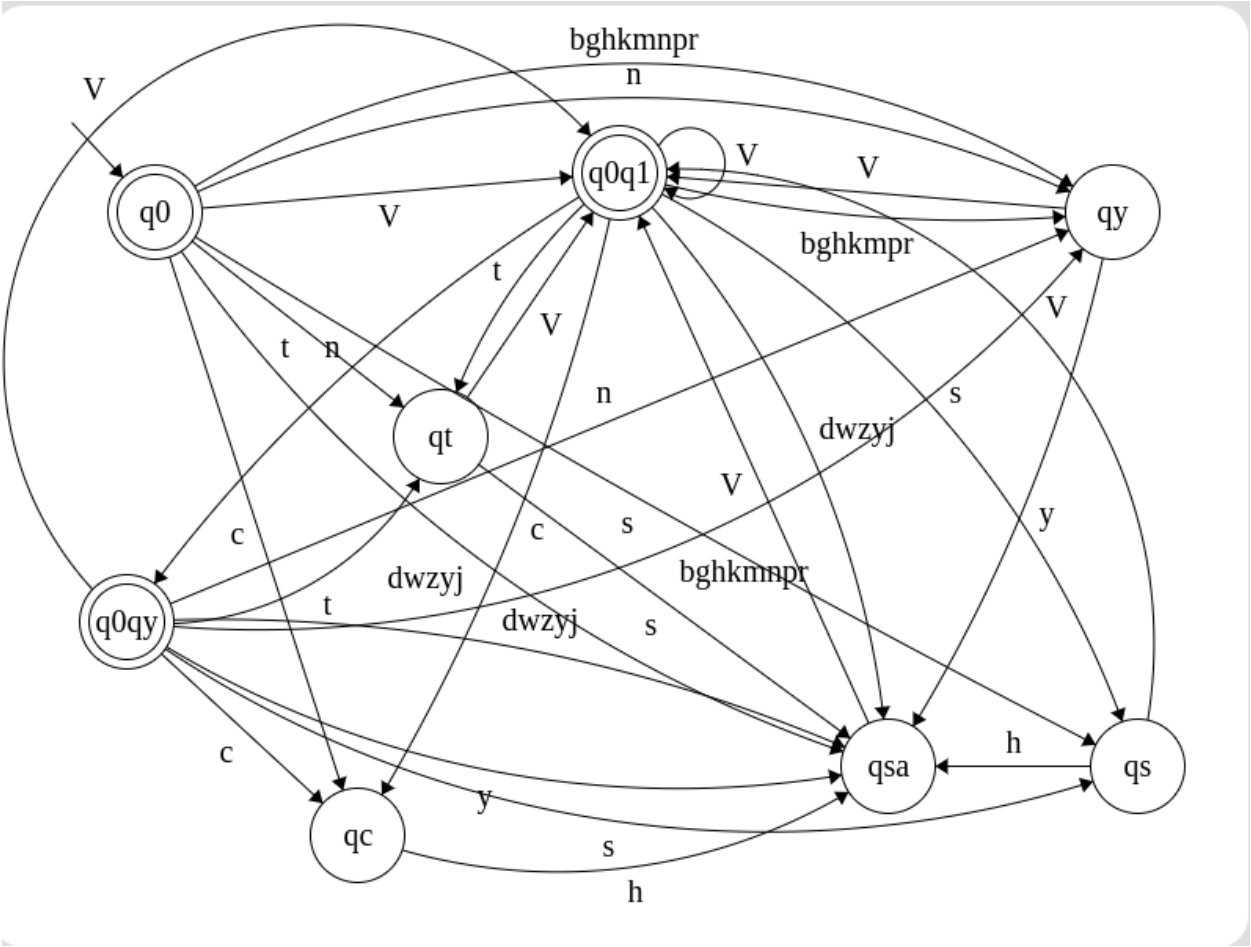
Trs(qs, V)	= q0q1	loop
Trs(qs, dwzyj)	= —	
Trs(qs, bghkmnpr)	= —	
Trs(qs, t)	= —	
Trs(qs, s)	= —	
Trs(qs, c)	= —	
Trs(qs, h)	= qsa	loop
Trs(qs, n)	= —	
Trs(qs, y)	= —	

**qc Transitions**

Trs(qc, V)	= —	
Trs(qc, dwzyj)	= —	
Trs(qc, bghkmnpr)	= —	
Trs(qc, t)	= —	
Trs(qc, s)	= —	
Trs(qc, c)	= —	
Trs(qc, h)	= qsa	loop
Trs(qc, n)	= —	
Trs(qc, y)	= —	

Part A - DFA for **WORD** and **PERIOD**

**WORD**



**PERIOD**

