I_7: $S \to SaS.b \xrightarrow{b} I_8 \to S \to SaSb.$

$S \to S.aSb \xrightarrow{a} I_4$

	ACTION						GOTO	
	a	b	c	q	m	$	S	Q
0			S2	r5	r5		1	3
1	S4					acc		
2	r2	r2		$		r2		
3				S5	S6			
4			S2	r5	r5		7	3
5	r3	r3				r3		
6				r4	r4			
7	S4	S8						
8	r1	r1				r1		

FIRST(S) = {b, ε, d, a}

FIRST(A) = {b, ε, d}

FIRST(B) = {b, ε}

FIRST(D) = {d, ε}

Follow(S) = {$}

Follow(A) = {a}

Follow(B) = {d, a}

Follow(D) = {a}

0) $S' \to S$

1) $S \to S\,a\,S\,b$

2) $S \to c$

3) $S \to Q\,q$

4) $Q \to Q\,m$

5) $Q \to \epsilon$

I_0: $S' \to .S$, $S \to .S\,a\,S\,b$, $S \to .c$, $S \to .Q\,q$, $Q \to .Q\,m$, $Q \to \epsilon.$

$\xrightarrow{S}$ I_1: $S' \to S.$, $S \to S.a\,S\,b$

$\xrightarrow{c}$ I_2: $S \to c.$

$\xrightarrow{Q}$ I_3: $S \to Q.q$, $Q \to Q.m$

I_1: $S' \to S.$, $S \to S.a\,S\,b$

$\xrightarrow{a}$ I_4: $S \to S\,a.S\,b$, $S \to .S\,a\,S\,b$, $S \to .c$, $S \to .Q\,q$, $Q \to .Q\,m$, $Q \to \epsilon.$

I_3: $S \to Q.q$, $Q \to Q.m$

$\xrightarrow{q}$ I_5: $S \to Q\,q.$

$\xrightarrow{m}$ I_6: $Q \to Q\,m.$

I_4: $S \to S\,a.S\,b$, $S \to .S\,a\,S\,b$, $S \to .c$, $S \to .Q\,q$, $Q \to .Q\,m$, $Q \to \epsilon.$

$\xrightarrow{S}$ I_7: $S \to S\,a\,S.b$, $S \to S.a\,S\,b$

$\xrightarrow{c}$ I_2

$\xrightarrow{Q}$ I_3