## Exercício 3 de Compiladores

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1.

## a) Tabela Canônica:

$$Cc0 = [Inicio \rightarrow \bullet S, EOF], [S \rightarrow \bullet Aa, EOF], [A \rightarrow \bullet BC, a], [A \rightarrow \bullet BCf, a], [B \rightarrow \bullet b, c]$$

$$Cc1(Cc0, S) = [Inicio \rightarrow S \bullet, EOF]$$

$$Cc2(Cc0, A) = [S \rightarrow A \bullet a, EOF]$$

$$Cc3(Cc0, B) = [A \rightarrow B \bullet C, a], [C \rightarrow \bullet c, a], [A \rightarrow B \bullet Cf, a], [C \rightarrow \bullet c, f]$$

$$Cc4(Cc0, b) = [B \rightarrow b \bullet, c]$$

$$Cc5(Cc2, a) = [S \rightarrow Aa \bullet, EOF]$$

$$Cc6(Cc3, C) = [A \rightarrow BC \bullet, a], [A \rightarrow BC \bullet f, a]$$

$$Cc7(Cc3, c) = [C \rightarrow c \bullet, a], [C \rightarrow c \bullet, f]$$

$$Cc8(Cc6, f) = [A \rightarrow BCf \bullet, a]$$

## b) Tabelas Action e Goto:

ACTION					GOTO				
Estados	EOF	a	b	С	f	S	A	В	С
s0			s4			1	2	3	
s1	ACC								
s2		s5							
s3				s7					6
s4				r5					
s5	r2								
s6		r3			s8				
s7		r6			r6				
s8		r4							

## c) Derivação de bca, e bcfa

b	са	bcfa			
\$0	bca	\$0	bcfa		
\$0b4	ca	\$0b4	cfa		
\$0B3	ca	\$0B3	cfa		
\$0B3c7	a	\$0B3c7	fa		
\$0B3C6	a	\$0B3C6	fa		
\$0A2	a	\$0B3C6f8	a		
\$0A2a5	EOF	\$0A2a5	EOF		
\$0S1	EOF	\$0S1	EOF		
ACC		ACC			