

a

$S \rightarrow 0T$   
 $T \rightarrow S1 \mid 1$

b

$\text{FIRST}(0) = \{ 0 \}$   
 $\text{FIRST}(1) = \{ 1 \}$   
 $\text{FIRST}(S) = \{ 0 \}$   
 $\text{FIRST}(T) = \{ 0, 1 \}$

$\text{FOLLOW}(S) = \{ \$, 1 \}$   
 $\text{FOLLOW}(T) = \{ \$, 1 \}$

c

$S \rightarrow 0T$   
 $\text{FIRST}(0T) = \text{FIRST}(0) = \{ 0 \}$   
 $M[S,0] = S \rightarrow 0T$

$T \rightarrow S1$   
 $\text{FIRST}(S1) = \text{FIRST}(S) = \{ 0 \}$   
 $M[T,0] = T \rightarrow S1$

$T \rightarrow 1$   
 $\text{FIRST}(1) = \{ 1 \}$   
 $M[T,1] = T \rightarrow 1$

Não terminal	Símbolo de entrada	
	0	1
$S \rightarrow$	0T	
$T \rightarrow$	S1	1

d

Pilha	Entrada	Ação
S	000111	
0T	000111	$S \rightarrow 0T$
T	00111	Casou 0
S1	00111	$T \rightarrow S1$
0T1	00111	$S \rightarrow 0T$
T1	0111	Casou 0
S11	0111	$T \rightarrow S1$
0T11	0111	$S \rightarrow 0T$
T11	111	Casou 0
111	111	$T \rightarrow 1$
11	11	Casou 1
1	1	Casou 1
		Casou 1