	1	2	3	4.1	4.2
S	X	X	X	{a, e}	{a, e}
U	X	X	{a, e}	{a, e}	{a, e}
Z	X	ε	{b, ε}	{b, ε}	{b, ε}
X	X	X	{c}	$\{c, m, n, b, \epsilon\}$	{c, m, n, b, ε}
M	X	3	{m, ε}	{m, ε}	{m, ε}
N	X	ε	{n, ε}	{n, ε}	{n, ε}

## suivant:

	1	2	3.1	3.2
S	X	<b>{\$}</b>	{\$}	{\$}
U	X	{b}	{\$, b}	{\$, b}
Z	X	X	{\$}	<b>{\$}</b>
X	X	{b}	{\$, b}	{\$, b}
M	X	{n}	{\$, b, n}	{\$, b, n}
N	X	{b}	{\$, b}	{\$, b}

	a	b	m	n	e	С	\$
S	1				1		
U	2				3		
Z		4					5
X		7	7	7		6	
M		9	8	9			9
N		11		10			11

 $1: S \rightarrow UZ$ 

2:  $U \rightarrow aX$ 

 $3: U \rightarrow eU$ 

 $4: Z \rightarrow bZ$   $5: Z \rightarrow \epsilon$ 

6:  $X \rightarrow c$ 7:  $X \rightarrow MN$ 

8:  $M \rightarrow m$ 

9:  $M \rightarrow \epsilon$ 

10: N  $\rightarrow$  n

11:  $N \rightarrow \epsilon$  (si epsilon, mettre la règle dans les suivant de N)