

Fill in the Action and Goto tables for an LALR parser for the grammar given below, where the start symbol is **S**. Although the grammar is ambiguous, your parser must not be ambiguous: an ambiguous string, such as **iaea**, must be parsed in the “correct” manner, using the usual disambiguating rule for the “dangling else” problem.

1. $S \rightarrow a_2$
2. $S \rightarrow w_3S_4$
3. $S \rightarrow i_5S_6$
4. $S \rightarrow i_5S_6e_7S_8$
5. $S \rightarrow b_9L_{10}n_{11}$
6. $L \rightarrow L_{10}S_{12}$
7. $L \rightarrow \epsilon$

	a	w	i	e	b	n	eof	S	L
0									
1							halt		
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

ACTION
GOTO