Assignment # 3

Due: March 3 by 11:59PM

Present the CKY recognition matrix for each of the following stings (one per page on 4 pages) assuming the Chomsky Normal Form grammar, $G = (\{S,A,B,C,D,E\}, \{a,b\}, S, P)$, specified by the rules P. Note: not all strings are in the language.

 $S \rightarrow AB \mid BA$ $A \rightarrow CD \mid a$ $B \rightarrow CE \mid b$ $C \rightarrow a \mid b$ $D \rightarrow AC$ $E \rightarrow BC$

	a	b	b	a	b
1					
2					
3					
4					
5			•		

	b	a	b	a
1				
2				
3				
4			1	

	b	b	a	a	b	b
1						
2						
3						
4					2	
5				u		
6			-			

	a	b	b	a
1				
2				
3				
4			1	