Give a parse table for the following grammar. (S is the start symbol.)

1. S → ABe $V = \{S, A, B,$
2. A → dB $a\ b, c, \lambda, e\}$
3. A → aS
4. A → c
5. B → AS
6. B → b

x	a	b	c	d	e	#
S	ABe		A Be	A Be		
A	aS		C	dB		
B	AS	b	AS	A S		
a	Aλ pop					
b		λ pop				
c			λd pop			
d				λd pop		
e					λd pop	
#						accept

2)
Using your parse table in Problem 1, give the state of the input string and stack at every iteration using the input string dbbe. **Is the string accepted or rejected?**

Stack	Input String
S#	dbbe#
ABe#	dbbe# ↑
dBBe#	dbbe # ↑
BBe#	dbbe ≠ ↑
bBe #	db be # ↑
Be #	db be ‡ ↑
be ‡	dbbe ‡ ↑
e#	d bbe # ↑
‡	d bbe ‡ ↑
ACCEPT!	