Consider the following grammar. (number) represent production umber of grammar.

S-> NP VP (P0)
NP -> DT NN (P1)
NP -> PR NN (P2)
NP -> NP SBAR (P3)
VP -> VBD   (P4)
SBAR -> IN S (P5)
DT -> the   (P6)
PRP -> my (P7)
NN -> motorcycle | guy | sister (P8,P9,P10)
VBD -> rode | married | rusted (P11,P12,P13)
IN -> that (P14)

Its SLR-1 table is given below. (more clear image can be found in folder)

Parsing table can be found in table.csv file,where columns are separated by commas (,) .
You need to implement SLR-1 parsing algorithm for this parsing table, consider input already tokenized (no lexical analysis required).

SLR(1) Table

	$	that	rusted	married	rode	sister	guy	motorcycle	my	the	S	PR	NP	VP	SBAR	DT	PRP	NN	VBD	IN
0										s5	s4	s3	s2			s1				
1						s18	s17	s16										s15		
2		s14	s13	s12	s11									s10	s9				s8	s7
3						s18	s17	s16										s6		
4	acc																			
5						r(DT → the)	r(DT → the)	r(DT → the)												
6		r(NP → PR NN)	r(NP → PR NN)	r(NP → PR NN)	r(NP → PR NN)															
7										s5	s19	s3	s2			s1				
8	r(VP → VBD)	r(VP → VBD)	r(VP → VBD)	r(VP → VBD)	r(VP → VBD)															
9		r(NP → NP SBAR)	r(NP → NP SBAR)	r(NP → NP SBAR)	r(NP → NP SBAR)															
10	r(S → NP VP)	r(S → NP VP)	r(S → NP VP)	r(S → NP VP)	r(S → NP VP)															
11	r(VBD → rode)	r(VBD → rode)	r(VBD → rode)	r(VBD → rode)	r(VBD → rode)															
12	r(VBD → married)	r(VBD → married)	r(VBD → married)	r(VBD → married)	r(VBD → married)															
13	r(VBD → rusted)	r(VBD → rusted)	r(VBD → rusted)	r(VBD → rusted)	r(VBD → rusted)															
14										r(IN → that)										
15		r(NP → DT NN)	r(NP → DT NN)	r(NP → DT NN)	r(NP → DT NN)															
16		r(NN → motorcycle)	r(NN → motorcycle)	r(NN → motorcycle)	r(NN → motorcycle)															
17		r(NN → guy)	r(NN → guy)	r(NN → guy)	r(NN → guy)															
18		r(NN → sister)	r(NN → sister)	r(NN → sister)	r(NN → sister)															
19		r(SBAR → IN S)	r(SBAR → IN S)	r(SBAR → IN S)	r(SBAR → IN S)															

Each stack operation should be properly displayed.