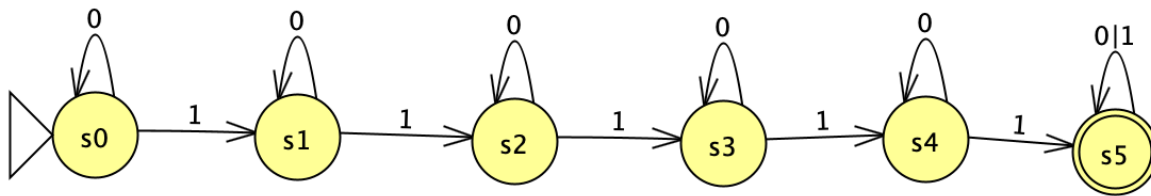


Question 1



Question 2

$E := bX$

$X := +aX$

$|\epsilon$

Question 3

$S \rightarrow aX$

$X \rightarrow a$

$|\ b$

$|\ \epsilon$

Question 4

	Stack	Input	Action
1	\$	tuwvxtw \$	Push(A);
2	A\$	tuwvxtw \$	Pop(); Push(tB'D);
3	tB'D\$	tuwvxtw \$	Pop(); next++;

4	B'D\$	uwvxtw \$	Pop(); Push(uwB);
5	uwBD\$	uwvxtw \$	Pop(); next++;
6	wBD\$	wvxtw \$	Pop(); next++;
7	BD\$	vxtw \$	Pop(); Push(ϵ);
8	ϵ D\$	vxtw \$	Pop();
9	D\$	vxtw \$	Pop(); Push(vD');
10	vD'\$	vxtw \$	Pop(); next++;
11	D'\$	xtw \$	Pop(); Push(xBD');
12	xBD'\$	xtw \$	Pop(); next++;
13	BD'\$	tw \$	Pop(); Push(tB');

14	tB'D'\$	tw\$	Pop(); next++;
15	B'D'\$	w\$	Pop(); Push(wB);
16	wBD'\$	w\$	Pop(); next++;
17	BD'\$	\$	Pop(); Push(ϵ);
18	ϵ D'\$	\$	Pop();
19	D'\$	\$	Pop(); Push(ϵ);
20	ϵ \$	\$	Pop();
21	\$	\$	Done

Question 5

#	Parse Stack	Look Ahead	Unscanned	Action
0	empty	id	+ id * id	Start
1	id	+	id * id	Shift

2	F	+	id * id	Reduce "id" to "F"
3	T	+	id * id	Reduce "F" to "T"
4	E	+	id * id	Reduce "T" to "E"
5	E +	id	* id	Shift
6	E + id	*	id	Shift
7	E + F	*	id	Reduce "id" to "F"
8	E + T	*	id	Reduce "F" to "T"
9	E + T *	id	empty	Shift
10	E + T * id	empty	empty	Shift
11	E + T * F	empty	empty	Reduce "id" to "F"
12	E + T	empty	empty	Reduce "T*F" to "T"
13	E + T	empty	empty	Reduce "E+T to "E"
14	E	empty	empty	Accept